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PROGRAM

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BRYN MAWR COLLEGE.

COLLEGE CALENDAR.

1900.

JANUARY.

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The present academic year will close with the Conferring of Degrees at eleven o'clock, on June 7th, 1900.

ACADEMIC YEAR 1900-1901.

September 24th.	Matriculation examinations begin.
September 28th.	Matriculation examinations end.
September 29th.	Registration of students.
October 1st.	Registration of students.
October 2nd.	Lectures and class work of sixteenth academic year begin at a quarter to nine o'clock.
November 29th.	Thanksgiving vacation.
November 30th.	Thanksgiving vacation.
December 15th.	Senior oral examinations in French and German.
December 20th.	Christmas vacation begins at one o'clock.
January 4th.	Christmas vacation ends at a quarter to nine o'clock.
January 28th.	Half-yearly collegiate examinations begin.
February 4th.	Matriculation examinations begin for candidates intending to enter the college at the half-year.
February 8th.	Collegiate and matriculation examinations end.
February 11th.	Lectures and class work of the second semester begin at a quarter to nine o'clock.
February 22nd.	Washington's Birthday ; vacation.
March 2nd.	Senior oral examinations in French and German.
March 30th.	Senior oral examinations in French and German.
April 3rd.	Easter vacation begins at one o'clock.
April 11th.	Easter vacation ends at a quarter to nine o'clock.
May 11th.	Senior oral examinations in French and German.
May 21st.	Vacation.
May 22nd.	Collegiate examinations begin.
May 31st.	Matriculation examinations begin.
June 4th.	Collegiate examinations end.
June 5th.	Matriculation examinations end.
June 6th.	Conferring of degrees and close of sixteenth academic year.

BOARD OF TRUSTEES.

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EDWARD BETTLE, JR., Philadelphia.	RUFUS M. JONES, Haverford.
ALEXANDER C. WOOD, Cinnaminson, N. J.	

ACADEMIC APPOINTMENTS.

M. CAREY THOMAS, PH.D., LL.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipzig, 1879-82; Ph.D., University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

CHARLOTTE ANGAS SCOTT, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honours, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

HERMANN COLLITZ, PH.D., *Professor of Comparative Philology and German.*

Bleekede, Hanover, Germany. University of Göttingen, 1875-78; University of Berlin, 1878-81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885-86.

JAMES HARKNESS, A.M. (*Cambridge and London*), *Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, University of Cambridge, England, 1882; Graduate in Honours (8th Wrangler) in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH,* PH.D., *Professor of Greek.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipzig, 1879-81; University of Göttingen, 1881-83; Instructor in Classics and Sanskrit, Williams College, 1883-85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885-87; Reader in Greek Literature, Johns Hopkins University, 1887-88.

MARY GWINN, PH.D., *Professor of English.*

Studied at the University of Leipzig, 1879-82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and graduate student, 1887-88; Ph.D., Bryn Mawr College, 1888.

CHARLES MCLEAN ANDREWS, PH.D., *Professor of History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888-89; Ph.D., Johns Hopkins University, 1889.

GONZALEZ LODGE, PH.D., *Professor of Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883-86; Ph.D., Johns Hopkins University, 1886; Professor of Greek, Davidson College, 1886-88; American School of Classical Studies, Athens, 1888-89; University of Bonn, 1889.

GEORGE A. BARTON, PH.D., *Associate Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891.

JOSEPH AUGUSTE FONTAINE,† PH.D., *Professor of Romance Languages.*

College of Sion, Naney, France, 1879; Paris, 1880-81; Johns Hopkins University, 1882-86; Ph.D., Johns Hopkins University, 1886; Collège de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886-87; Instructor, University of Nebraska, 1887-89; Professor of Modern Languages, University of Mississippi, 1889-91.

* Granted leave of absence for the year 1899-1900. In 1899-1900 the courses usually given by Dr. Smyth are given by Dr. Hamilton.

† Granted leave of absence for the year 1899-1900. In 1899-1900 the courses usually given by Dr. Fontaine are given by Dr. Schinz.

ARTHUR STANLEY MACKENZIE, PH.D., *Professor of Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887-89; Graduate Scholar, Johns Hopkins University, 1889-90; Fellow in Physics, Johns Hopkins University, 1890-91; Ph.D., Johns Hopkins University, 1894.

JAMES DOUGLAS BRUCE, PH.D., *Associate Professor of English Philology.*

A.M., University of Virginia, 1883; University of Berlin, 1886-88; University of Strassburg, 1888; Johns Hopkins University, 1889-90; Professor of Modern Languages, Centre College, 1890-91; Ph.D., Johns Hopkins University, 1894.

THOMAS HUNT MORGAN, PH.D., *Professor of Biology.*

B.S., State College, Kentucky, 1886, and M.S., 1888; Graduate Scholar, Johns Hopkins University, 1888-89; Fellow in Biology, Johns Hopkins University, 1889-90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890-91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871-72; University of Leipsic, 1872-73; University of Bonn, 1873-79; M.D., University of Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881-91; Lecturer in Medical Department of the University of the City of New York, 1885-86; Lecturer in Physiology, University of Michigan, 1889.

ELMER P. KOHLER, PH.D., *Associate Professor of Chemistry.*

A.B., Muhlenberg College, 1886, and A.M., 1889; Johns Hopkins University, 1889-91; Fellow in Chemistry, Johns Hopkins University, 1891-92; Ph.D., Johns Hopkins University, 1892.

LINDLEY MILLER KEASBEY, PH.D., R.P.D., *Professor of Political Science.*

A.B., Harvard University, 1888; A.M., Columbia College, 1889; Ph.D., Columbia College, 1890; University of Berlin, 1890-91; University of Strassburg, 1891-92; *Rerum Politicarum Doctor*, University of Strassburg, 1892; Assistant in Economics, Columbia College, and Lecturer on Political Science, Barnard College, 1892; Professor of History, Economics, and Political Science, State University of Colorado, 1892-94.

LOUIS EMIL MENDER, PH.D., *Professor of Romance Philology.*

A.B., Mississippi College, 1888, and A.M., 1890; Professor of Latin and German, Mary Le Grand Institute, Vicksburg, Miss., 1888-90; Fellow in Romance Languages, Johns Hopkins University, 1892-93; Ph.D., Johns Hopkins University, 1893; Instructor in Romance Languages, Johns Hopkins University, 1893-94; Associate in Romance Languages, Johns Hopkins University, 1894-97.

FONGER DEHAAN, PH.D., *Associate Professor of Spanish.*

Leeuwarden, Holland. Ph.D., Johns Hopkins University, 1895; Instructor in Modern Languages, Lehigh University, 1885-91; Fellow in Romance Languages, Johns Hopkins University, 1893-94; Assistant in Romance Languages, Johns Hopkins University, 1893-95; Instructor in Romance Languages, Johns Hopkins University, 1895-96; Associate in Romance Languages, Johns Hopkins University, 1896-97.

JAMES H. LEUBA, PH.D., *Associate in Psychology and Education.*

B.S., Neuchâtel, Switzerland, 1886; Ph.B., Ursinus College, 1888; Scholar in Psychology, Clark University, 1892-93; Fellow in Psychology, Clark University, 1893-95; Ph.D., Clark University, 1896.

FLORENCE BASCOM, PH.D., *Associate in Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887; Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893; Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

CHARLES MONTAGUE BAKEWELL, PH.D., *Associate Professor of Philosophy.*

A.B., University of California, 1889, and A.M., 1891; Thayer Scholar, Harvard University, 1891-92; A.M., Harvard University, 1892, and Ph.D., 1894; Walker Fellow of Harvard University, Universities of Berlin and Strassburg, 1894-95; John Harvard Fellow of Harvard University, University of Paris, 1895-96; Instructor in Philosophy, Harvard University, 1896-97; Instructor in Philosophy, University of California, 1897-98.

WILLIAM ALLAN NEILSON, PH.D., *Associate in English Literature.*

Doune, Scotland. Holder of MacDougall Bursary, University of Edinburgh, 1887-90, and A.M., 1891; Dickson Travelling Fellow, University of Edinburgh, 1891; English Master, Upper Canada College, Toronto, Ont., 1891-95; A.M., Harvard University, 1896; University Scholar, Harvard University, 1896-97; Morgan Fellow, Harvard University, 1897-98; Ph.D., Harvard University, 1898.

ALBERT HAAS, PH.D., *Associate in German Literature.*

Hertzberg, Schweinitz, Prussia. University of Berlin, 1891-92, and 1893-95; University of Geneva, 1892; Ph.D., University of Berlin, 1895; Sorbonne and University of Bonn, 1896; University of Freiburg, 1897.

WILMER CAVE FRANCE, PH.D., *Associate in Classical Literature.*

Tysley, Worcestershire, England. Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892; Fellow in Greek, Bryn Mawr College, 1892-93; Fellow in Latin, University of Chicago, 1893-94, and Fellow in Greek, 1894-95; Ph.D., University of Chicago, 1895; Reader in Greek and Latin, University of Chicago, 1895-96.

JOSEPH CLARK HOPPIN, PH.D., *Associate in Classical Art and Archaeology.*

A.B., Harvard University, 1893; American School at Athens, Winter Semester, University of Berlin, Summer Semester, 1893-94; University of Munich, 1894-95; American School at Athens, Winter Semester, University of Munich, Summer Semester, 1895-96; Ph.D., University of Munich, 1896; American School at Athens, 1896-97; Lecturer on Greek Vases, American School at Athens, 1897-98; Instructor in Greek Art, Wellesley College, 1898-99.

ROBERT SOMERVILLE RADFORD, PH.D., *Associate in Latin Literature.*

Ph.B., University of Virginia, 1889, and A.M., 1892; Instructor in Latin and Greek, University of Virginia, 1888-92; Graduate Scholar, Johns Hopkins University, 1893-95; Ph.D., Johns Hopkins University, 1895; Instructor in Latin, Academy of Northwestern University, 1895-96; Instructor (in charge of Department) in the Latin Language and Literature, Washburn College, 1897-99.

ALLERTON S. CUSHMAN, PH.D., *Associate in Chemistry.*

S.B., Worcester Polytechnic Institute, 1888; University of Heidelberg, 1889-90; Instructor in Chemistry, Washington University, 1892-96; Harvard University, 1896-97; John Harvard Fellow, Harvard University, 1897-98; A.M., Harvard University, 1897, and Ph.D., 1898.

ALBERT P. WILLS, PH.D., *Associate in Applied Mathematics and Physics.*

B.E.E., Tufts College, 1894; Clark University, 1894-97; Ph.D., Clark University, 1897; Universities of Berlin and Göttingen, 1898-99.

ALBERT SCHINZ, PH.D., *Associate in French.*

Neuchâtel, Switzerland. A.B., University of Neuchâtel, 1888, and A.M., 1889. Licentiate in Theology, 1892; University of Berlin, 1892-93; University of Tübingen, 1893; Ph.D., University of Tübingen, 1894; Sorbonne and Collège de France, 1894; Privatdozent, University of Neuchâtel, 1896-97; Instructor in French, Clark University, 1897-98; Instructor in French, University of Minnesota, 1898-99.

DAVID IRONS, PH.D., *Associate (elect) in Philosophy.*

A.M., University of St. Andrews, 1891; Ramsay Scholar, University of St. Andrews, 1891-92; Fellow in Philosophy, Cornell University, 1892-93; Universities of Berlin and Jena, 1893-94; Ph.D., Cornell University, 1894; Lecturer in Philosophy, Cornell University, 1894-96 and Instructor in Philosophy, 1897-1900; Acting Professor in charge of the department of Philosophy, University of Vermont, 1896-97.

HOLLISTER ADELBERT HAMILTON, PH.D., *Lecturer in Greek.*

A.B., University of Rochester, 1892; University of Chicago, 1894; Instructor in Greek and Latin, University of Rochester, 1894-96; Graduate Scholar, Johns Hopkins University, 1897-98; Fellow in Greek, Johns Hopkins University, 1898-99; Ph.D., Johns Hopkins University, 1899.

CLARENCE D. ASHLEY, LL.M., LL.D., *Non-Resident Lecturer in Law.*

A.B., Yale University, 1873; University of Berlin, 1876-78; LL.B., Columbia University, 1880; Professor of Law, Metropolis Law School, 1891-95; Professor of Law, New York University, 1895-1900; Vice-Dean of the Faculty of Law in charge of the Evening Division of the Law Department of New York University, 1895-96; Dean of the Faculty of Law of New York University, 1896-1900.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honours, Newnham College, University of Cambridge, England, 1886 (Mediaeval and Modern Languages Tripos, First Class).

HARRIET RANDOLPH, PH.D., *Demonstrator in Biology and Reader in Botany.*

A.B., Bryn Mawr College, 1889; Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-92; Ph.D., University of Zürich, 1892.

LUCY MARTIN DONNELLY, A.B., *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

HELEN WHITALL THOMAS,* A.B., *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Leipsic, Second Semester, 1893-94; Sorbonne and Collège de France and University of Leipsic, 1894-95; Bryn Mawr College, 1895-96.

HELEN STRONG HOYT, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1897, and A.M., 1898; Bryn Mawr College, 1897-98.

EDITH PETTIT, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1895, and A.M., 1898; Sorbonne and Collège de France, 1896-97; Bryn Mawr College, 1897-98.

MARY DELIA HOPKINS, A.M., *Reader in English.*

A.B. and A.M., Bryn Mawr College, 1896; Fellow in English, Bryn Mawr College, 1896-97, and Reader in English, 1897-98.

AGNES FRANCES PERKINS, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1898, and A.M., 1899; Bryn Mawr College, 1898-99.

FRANCES LOWATER, *Demonstrator in Physics.*

Nottingham, England. University College, Nottingham, 1888-91, 1892-93; Newnham College, University of Cambridge, England, 1891-92; Fellow in Physics, Bryn Mawr College, 1896-97, and Graduate Scholar in Physics, 1897-98; Secretary of Bryn Mawr College, 1898-99.

GERTRUDE LANGDEN HERITAGE, A.M., *Demonstrator in Chemistry.*

A.B., Bryn Mawr College, 1896, and A.M., 1899; Graduate Student in Chemistry, Bryn Mawr College, 1896-97, 1898-1900, and Graduate Student in Mathematics and Chemistry, 1897-98.

LOUISA SMITH, M.D., *Director of the Gymnasium.*

Graduate of the Anderson Normal School of Gymnastics, 1895; Special Course in Medical Gymnastics, Anderson Normal School of Gymnastics, 1895; Assistant Teacher in the Summer School of Physical Education, Cornell University, 1895; M.D., Syracuse University, 1898; Assistant Teacher in Chautauqua School of Physical Education, 1898.

JANETTE TROWBRIDGE, *Assistant in the Gymnasium.*

Graduate of the Anderson Normal School of Gymnastics, 1895; Instructor in Gymnastics, Newburg and Poughkeepsie Young Women's Christian Association, 1895-99; Instructor in the Chautauqua School of Pedagogy, 1895-98.

MARTHA E. OSMOND, M.D., *Physician of the College.*

M.D., Woman's Medical College of Pennsylvania, 1898; Johns Hopkins Medical School, 1899; Resident Physician, Evening Dispensary for Women and Girls, Baltimore, Md., 1898-99; Clinician, the Alumnae Dispensary, Philadelphia, Pa., 1899-1900.

GEORGE S. GERHARD, M.D., *Consulting Physician of the College.*

ISABEL ELY LORD, B.L.S., *Librarian.*

B.L.S., New York State Library School, 1897.

JULIA A. HOPKINS, *Assistant Librarian.*

Student, New York State Library School, 1895-96; Reference Librarian, Reynolds Library, Rochester, N. Y., 1896-99.

ISABEL MADDISON, B.Sc., PH.D., *Secretary to the President and Reader in Mathematics.*

B.Sc., University of London, 1893, and Ph.D., Bryn Mawr College, 1896; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

MARY HELEN RITCHIE, A.M., *Secretary of the College.*

A.B., Bryn Mawr College, 1896, and A.M., 1897; Graduate Scholar in Greek and Latin, Bryn Mawr College, 1896-97; Graduate Student in Greek and Latin, 1897-98, and Fellow in Latin, 1898-99.

ELIZABETH NIELDS, A.B., *Recording Secretary.*

A.B., Bryn Mawr College, 1898.

FREDERICKA M. KERR, *Bursar.*

* Granted leave of absence for the year 1899-1900.

ANNA BELL LAWTHER, A.B., *Assistant Bursar.*

A.B., Bryn Mawr College, 1897.

ELLEN SETON OGDEN, L.B., *Junior Bursar.*

L.B., University of Nashville, 1895; Bryn Mawr College, 1896-98, and 1899-1900.

Honorary Corresponding Secretaries.

MARY McMURTRIE, A.B., *Chestnut Hill*, PHILADELPHIA, PENNSYLVANIA.

SOPHIA WEYGANDT HARRIS, A.B. (MRS. JOHN MCARTHUR HARRIS), 105
West Walnut Lane, GERMANTOWN, PHILADELPHIA, PENNSYLVANIA.

EDITH PETTIT, A.M., 1012 *Spruce Street*, PHILADELPHIA, PENNSYLVANIA.

MARGARET THOMAS CAREY, A.B. (MRS. ANTHONY MORRIS CAREY), 832
Eutaw Street, BALTIMORE, MARYLAND.

ALYS PEARSALL SMITH RUSSELL, A.B. (THE HON. MRS. BERTRAND RUSSELL),
44 *Grosvenor Road*, S. W., LONDON, ENGLAND.

MILDRED MINTURN, A.B., 109 *E. Twenty-first Street*, NEW YORK CITY.

ALICE JONES, A.B., SANTA MONICA, LOS ANGELES CO., CALIFORNIA.

RUTH WADSWORTH FURNESS PORTER, A.B. (MRS. JAMES FOSTER PORTER),
586 *Dearborn Avenue*, CHICAGO, ILLINOIS.

ELIZA RAYMOND ADAMS LEWIS, A.B. (MRS. FRANK NICHOLS LEWIS),
236 *E. New York Street*, INDIANAPOLIS, INDIANA.

The Academic Committee of the Alumnae.

LOUISE SHEFFIELD BROWNELL, A.B., *Chairman*, *Sage College*, ITHACA, NEW YORK.

MARY TAYLOR MASON, A.B., *Secretary*, *School House Lane*, GERMANTOWN, PHILADELPHIA, PENNSYLVANIA.

DORA KEEN, A.B. (*ex officio*), 1729 *Chestnut Street*, PHILADELPHIA, PENNSYLVANIA.

ANNIE CROSBY EMERY, PH.D., *University of Wisconsin*, MADISON, WISCONSIN.

JANE LOUISE BROWNELL, A.M., *The Bryn Mawr School*, BALTIMORE, MARYLAND.

EDITH HAMILTON, A.M., *The Bryn Mawr School*, BALTIMORE, MARYLAND.

ALICE BACHE GOULD, A.B., 405 *Marlborough Street*, BOSTON, MASSACHUSETTS.

SUSAN GRIMES WALKER, A.B., *Fiske Hall*, *Barnard College*, NEW YORK CITY.

EUROPEAN FELLOWS, AND FELLOWS AND GRADUATE STUDENTS, 1899-1900.

CORA HARDY, *Holder of the Bryn Mawr European Fellowship.*
Birmingham, Ala. A.B., Bryn Mawr College, 1899. Holder of James E. Rhoads Junior
Scholarship, Bryn Mawr College, 1897-98, and Holder of Anna Powers Memorial Scholar-
ship, 1898-99; Student at the Sorbonne and Collège de France, 1899-1900.

EDITH FRANCES CLAFLIN,

Holder of the Mary E. Garrett European Fellowship.

Quincy, Mass. A.B., Radcliffe College, 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1897-98, and Graduate Student in Greek and Latin, 1898-99; Student at the American School of Classical Studies, Athens, 1899-1900.

FLORENCE PARTHENIA LEWIS, . *Holder of the President's European Fellowship.*

Fort Scott, Kan. A.B., University of Texas, 1897, and A.M., 1898. Fellow in Philosophy, Bryn Mawr College, 1898-99; Student at the Sorbonne and Collège de France, 1899-1900.

LIDA SHAW KING, *Fellow in Greek.*

Providence, R. I. A.B., Vassar College, 1890; A.M., Brown University, 1894. Fellow in Greek, Vassar College, 1894-95; Graduate Student in Greek and Greek History, Harvard University, 1897-98; Student at the American School of Classical Studies, Athens, 1899-1900.

HATTIE JOSEPHINE GRIFFIN, *Fellow in Latin.*

Madison, Wis. A.B., University of Wisconsin, 1898. Alumni Fellow in Latin, University of Wisconsin, 1898-99.

LAURETTE EUSTIS POTTS, *Fellow in English.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1897. Mistress of Pembroke Hall East, Bryn Mawr College, 1895-96; Sorbonne and Collège de France, 1896-97; Graduate Student in English, Bryn Mawr College, 1897-98; Reader in English, Bryn Mawr College, 1897-99.

SOPHIE YHLEN OLSEN, *Fellow in Teutonic Philology.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in English and Teutonic Philology, Bryn Mawr College, 1898-99.

ANABELLE ROXBURGH HUTCHINSON, . . . *Fellow in Romance Languages.*

York, England. Newnham College, University of Cambridge, England, 1895-99; Mediæval and Modern Languages Tripos, 1898.

RUTHELLA BERNARD MORY, *Fellow in History.*

Baltimore, Md. A.B., Woman's College of Baltimore, 1897; Ph.M., University of Chicago, 1899. Student in English and History, University of Oxford, England, 1897-98; Graduate Student in History and History of Art, University of Chicago, 1898-99.

ANNIE LYNDESAY WILKINSON, *Fellow in Mathematics.*

Cleveland, O. A.B., Vassar College, 1897, and A.M., 1898. Babbitt Fellow of Vassar College and Graduate Scholar in German and Mathematics, Bryn Mawr College, 1898-99.

MARY KEYT ISHAM, *Fellow in Philosophy.*

Cincinnati, O. A.B., Wellesley College, 1894; A.M., University of Cincinnati, 1898. Graduate Student in Philosophy and Psychology, University of Cincinnati, 1897-98; Graduate Student in Philosophy and Psychology, University of Chicago, 1898-99.

ELIZABETH WILLIAMS TOWLE, *Fellow in Biology.*

New Haven, Conn. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in Physics and Biology, Bryn Mawr College, 1898-99.

MARIE REIMER, *Fellow in Chemistry.*

East Aurora, N. Y. A.B., Vassar College, 1897. Graduate Scholar in Chemistry, Vassar College, 1897-98; Assistant in the Chemical Laboratory, Vassar College, 1898-99.

EVANGELINE HOLCOMBE WALKER ANDREWS,* . . . *English and Italian.*

Washington, D. C. A.B., Bryn Mawr College, 1893. Teacher of English in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1893-95.

ANNA PALMYRA BIRDSALL,

Graduate Scholar in English, Biblical History, and Philosophy.

Leptondale, N. Y. Ph.B., Earlham College, 1895.

SUE AVIS BLAKE, *Physics and Biology.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1898. Demonstrator and Graduate Student in Physics, Bryn Mawr College, 1898-99.

* Mrs. Charles McLean Andrews, 1895.

CAROLINE BROWN BOURLAND,

Graduate Scholar and Fellow by Courtesy in Romance Languages.

Peoria, Ill. A.B., Smith College, 1893. Teacher of French and German in Mrs. Starratt's School, Oak Park, Ill., 1895-96, and in the High School, Peoria, 1896-97; Student, Sorbonne and Collège de France, 1897-98; Fellow in Romance Languages, Bryn Mawr College, 1898-99.

MARY BIDWELL BREED,

Graduate Scholar and Fellow by Courtesy in Chemistry.

Pittsburg, Pa. Graduate, Pennsylvania College for Women, 1889; A.B., Bryn Mawr College, 1894, and A.M., 1895. Holder of the Bryn Mawr European Fellowship, Graduate Student in Chemistry, and Assistant in the Chemical Laboratory, Bryn Mawr College, 1894-95; Student in Chemistry, University of Heidelberg, 1895-96; Professor of Science, Pennsylvania College for Women, 1897-99.

EDITH BURWELL CHAPIN, *English and Political Science.*

St. David's, Pa. A.B., Bryn Mawr College, 1899.

ELIZABETH WHITE COFFIN, *Latin and Mathematics.*

Denison, Tex. A.B., Guilford College, 1899. Holder of the Guilford Graduate Scholarship, Bryn Mawr College, 1899-1900.

LOUISE D. CUMMINGS, *Fellow by Courtesy in Mathematics.*

Hamilton, Ont. A.B., University of Toronto, 1895. Fellow in Mathematics, University of Pennsylvania, 1896-97; Graduate Student, University of Chicago, 1897-98; Fellow in Mathematics, Bryn Mawr College, 1898-99.

ALICE REED DAVIDSON, *English and Psychology.*

Allgheny, Pa. L.B., Pennsylvania College for Women, 1898. Graduate Student in English, History, and Psychology, Bryn Mawr College, 1898-99.

WILLEY DENIS, *Chemistry and Geology.*

New Orleans, La. A.B., Tulane University, 1899.

MAY TERRY ELMORE, *Graduate Scholar in English.*

Elmira, N. Y. A.B., Elmira College, 1892. Teacher of English and History in the Park Place School, Elmira, 1895-98; Graduate Student in English, Bryn Mawr College, 1898-99.

MARY L. GLIDE, *Mathematics and Physics.*

Sacramento, Cal. S.B., University of the Pacific, 1899; Randolph-Macon Woman's College, 1894-95.

FLORENCE ALDEN GRAGG, *Graduate Scholar in Greek.*

Cambridge, Mass. A.B., Radcliffe College, 1899. Student at the American School of Classical Studies, Athens, 1899-1900.

JOSEPHINE HEMENWAY, *Chemistry and Biology.*

Glasgow, Mo. A.B., Pritchett College, 1898. Graduate Student, Pritchett College, 1898-99.

FLORENCE RUTH HENLEY, *German and Mathematics.*

Carthage, Ind. Ph.B., Earlham College, 1899. Holder of Earlham Graduate Scholarship, Bryn Mawr College, 1899-1900.

GERTRUDE LANGDEN HERITAGE, *Chemistry.*

Bryn Mawr, Pa. A.B., Bryn Mawr College, 1896, and A.M., 1899. Graduate Student in Chemistry, Bryn Mawr College, 1896-97, 1898-99, and Graduate Student in Mathematics and Chemistry, 1897-98; Demonstrator in Chemistry, Bryn Mawr College, 1896-1900.

MARGARET HILL HILLES, *Italian.*

Wilmington, Del. A.B., Bryn Mawr College, 1893. Student in Library School, Drexel Institute, Philadelphia, Pa., 1898-99; Mistress of Merion Hall, Bryn Mawr College, 1899-1900.

MARY INDA HUSSEY, *Semitic Languages and Psychology.*

Richmond, Ind. Ph.B., Earlham College, 1896. Graduate Student in Biblical Literature, Bryn Mawr College, 1897-98, and Foundation Scholar, 1897-99.

HELEN DEAN KING, *Fellow by Courtesy in Biology.*

Owego, N. Y. A.B., Vassar College, 1892. Graduate Student in Biology, Vassar College, and Assistant in the Biological Laboratory, 1894-95; Graduate Scholar in Biology, Bryn Mawr College, 1895-96; and Graduate Student in Biology, 1896-97; Fellow in Biology, Bryn Mawr College, 1897-98; and Fellow by Courtesy in Biology, 1898-99.

WINIFRED M. KIRKLAND, *Graduate Scholar in English.*

New Berlin, N. Y. A.B., Vassar College, 1897. Teacher of English and Latin in the Misses Shipley's School, Bryn Mawr, Pa., 1897-99; Graduate Student in English, Bryn Mawr College, 1898-99.

ISABEL ELY LORD, *French.*

Hartford, Conn. B.L.S., University of the State of New York, 1897; Librarian, Bryn Mawr College, 1897-1900; Graduate Student in History, Political Science, and Philosophy, 1897-98, and Graduate Student in English, French, and Philosophy, 1898-99.

FRANCES LOWATER, *Applied Mathematics.*

Nottingham, England. University College, Nottingham, 1888-91, 1892-93; Newnham College, University of Cambridge, England, 1891-92; Demonstrator in Physics, Bryn Mawr College, 1893-96, 1897-98, and 1899-1900; Fellow in Physics, 1896-97, and Graduate Scholar in Physics, 1897-98; Secretary of Bryn Mawr College, 1898-99.

H. ETTA MCCARROLL,

Graduate Scholar in English, Arabic, and Biblical Literature.

Kirkville, Ia. Ph.B., Penn College, 1890, and A.M., 1894. Principal of the Hartland Academy, Ia., 1890-93; Teacher of Latin and English in the Haviland Academy, Kan., 1893-94; Principal of the Preparatory Department, Penn College, 1894-95 and 1897-98; Principal of the Earlham Academy, Ia., 1895-97; Graduate Scholar in English, Biblical Literature, and History, Bryn Mawr College, 1898-99.

HELEN MCCRACKIN, *French and German.*

Hamilton, Mont. A.B., University of Montana, 1899.

ROSELLA MEREDITH, *English and Biblical Literature.*

Lynnville, Ia. A.B., Penn College, 1899.

CONTENT SHEPARD NICHOLS, . . . *Graduate Scholar in Latin and English.*

Binghamton, N. Y. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1899.

ELIZABETH NIELDS, *Law of Contract.*

Wilmington, Del. A.B., Bryn Mawr College, 1898. Recording Secretary, Bryn Mawr College, 1898-1900.

MARY ISABEL NORTHWAY, *Graduate Scholar in Physics.*

Toronto, Ont. A.B., University of Toronto, 1898. Ontario Normal College, 1898-99.

ULLERICKA HENDRIETTA OBERGE, *History.*

Haverford, Pa. A.B., Bryn Mawr College, 1898. Graduate Student in History, Bryn Mawr College, 1898-99.

ELLEN SETON OGDEN, *Teutonic Philology and Biblical Literature.*

Troy, N. Y. L.B., University of Nashville, 1895. Teacher of Latin and Mathematics in the Winthrop Model School, Peabody Normal College, 1895-96; Graduate Student in Teutonic Philology and Semitic Languages, Bryn Mawr College, 1896-98; Junior Bursar, Bryn Mawr College, 1898-1900.

IDA HELEN OGILVIE, *Geology and Biology.*

New York City. A.B., Bryn Mawr College, 1900.

SOPHRONIA BAKER RICH, *Greek, Latin, and German.*

Newtonville, Mass. A.B., Boston University, 1892.

MARY HELEN RITCHIE, *Latin.*

Falls of Schuylkill, Pa. A.B., Bryn Mawr College, 1896, and A.M., 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1896-97, and Fellow in Latin, 1898-99; Secretary of Bryn Mawr College, 1899-1900.

CATHARINE SAUNDERS, *Greek and Latin.*

Elmira, N. Y. A.B., Elmira College, 1891. Preceptress of the Genesee Valley Seminary, 1893-95; Principal of the Park Place School, Elmira, N. Y., 1895-98; Graduate Student in Latin, French, Philosophy, and Pedagogy, Bryn Mawr College, 1898-99.

AGNES JULIA DE SCHWEINITZ,

Graduate Scholar in German and Teutonic Philology.

Bethlehem, Pa. A.B., Bryn Mawr College, 1899.

AMELIA CATHERINE SMITH, *Graduate Scholar in Biology.*

Philadelphia, Pa. S.B., University of Pennsylvania, 1899.

SARA HENRY STITES, . . *Graduate Scholar in History and Political Science.*

Wyoming, Pa. A.B., Bryn Mawr College, 1899.

MARTHA GIBBONS THOMAS, *Political Science.*

Whitford, Pa. A.B., Bryn Mawr College, 1890. Mistress of Pembroke Hall East, Bryn Mawr College, 1896-1900; Graduate Student, Bryn Mawr College, 1898-99.

MARY RUTTER TOWLE, *Physics and Chemistry.*

Wakefield, Mass. A.B., Bryn Mawr College, 1899.

FLORENCE CHILDS VICKERS, *English, German, and Italian.*

Los Angeles, Cal. A.B., Bryn Mawr College, 1898.

FORMER FELLOWS.

The Bryn Mawr European Fellowship was established by the Trustees in 1885, and has been held by the following graduates of Bryn Mawr College :

EMILY GREENE BALCH, 1889-90.

Boston, Mass. A.B., Bryn Mawr College, 1889. Student in Political Science, Conservatoire des Arts et des Métiers, Paris, and under the direction of Prof. Emile Levasseur, 1890-91; University of Chicago, 1895; University of Berlin, 1895-96; Member of Board of Trustees for Children of the City of Boston, 1897-98; Assistant in Economics, Wellesley College, 1896-97, and Instructor in Economics, 1897-1900.

KATHARINE MORRIS SHIPLEY, 1890-91.

Cincinnati, O. A.B., Bryn Mawr College, 1890. Student in Latin and English, University of Leipsic, 1890-91; Sorbonne and Collège de France, 1891-92; Newnham College, University of Cambridge, England, May term, 1892; Associate Principal and Teacher of English in the Misses Shipley's School, Bryn Mawr, Pa., 1894-1900.

LILIAN VAUGHAN SAMPSON, 1891-92.

Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Student in Biology, University of Zürich, 1892-93; Graduate Student in Biology, Bryn Mawr College, 1891-92, and 1893-99.

ANNIE CROSBY EMERY, 1892-93.

Ellsworth, Me. A.B., Bryn Mawr College, 1892; and Ph.D., 1896. Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93; Student in Greek and Latin, University of Leipsic, 1893-94; Secretary to the President and Graduate Student in Greek and Latin, Bryn Mawr College, Second Semester, 1894-95, and 1895-96; Dean of Women and Assistant Professor of Classical Philology, University of Wisconsin, 1897-1900; Dean (elect) of the Women's College of Brown University.

LOUISE SIEFFIELD BROWNELL, 1893-94.

New York City. A.B., Bryn Mawr College, 1893. Student in Greek and English, University of Oxford, England, and University of Leipsic, 1893-94; Graduate Student in Greek, Columbia College, 1894-95, and Graduate Student in English, 1895-96; Graduate Student in Greek and English, Bryn Mawr College, 1896-97; Warden of Sage College and Lecturer in English Literature, Cornell University, 1897-1900.

MARY BIDWELL BREED, 1894-95.

Pittsburg, Pa. Graduate, Pennsylvania College for Women, 1889; A.B., Bryn Mawr College, 1894, and A.M., 1895. Graduate Student in Chemistry, and Assistant in Chemical Laboratory, Bryn Mawr College, 1894-95; Student in Chemistry, University of Heidelberg, 1895-96; Professor of Science, Pennsylvania College for Women, 1897-99; Graduate Scholar and Fellow by Courtesy in Mathematics, Physics, and Chemistry, Bryn Mawr College, 1899-1900.

FLORENCE LEFTWICH, 1895-96.

Baltimore, Md. Wellesley College, 1884-85; A.B., Bryn Mawr College, 1895. Student in Romance Languages, Sorbonne and Collège de France, 1895-96; Mistress of Modern Languages, Mississippi Industrial Institute and College, Columbus, Miss., 1896-98; Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1898-99; Holder of the European Fellowship of the Baltimore Association for the Promotion of the University Education of Women, and Student at the Sorbonne and the University of Zürich, 1899-1900.

VIRGINIA RAGSDALE, 1896-97.

Jamestown, N. C. S.B., Guilford College, 1892; A.B., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-97; Student in Mathematics, University of Göttingen, 1897-98; Teacher of Science and Mathematics in the Bryn Mawr School, Baltimore, Md., 1898-1900.

MARGARET HAMILTON, 1897-98.

Fort Wayne, Ind. A.B., Bryn Mawr College, 1897. Student in Biology, Sorbonne and Collège de France, 1898-99.

MARION EDWARDS PARK, 1898-99.

Gloversville, N. Y. A.B., Bryn Mawr College, 1898. Graduate Student in Greek and English, Bryn Mawr College, 1898-99.

CORA HARDY, 1899-1900.

Birmingham, Ala. A.B., Bryn Mawr College, 1899. Holder of the James E. Rhoads Junior Scholarship, Bryn Mawr College, 1897-98, and Holder of Anna Powers Memorial Scholarship, 1898-99; Student at the Sorbonne and Collège de France, 1899-1900.

The Mary E. Garrett European Fellowship was established in 1894 by Miss Mary E. Garrett, of Baltimore, and has been held by the following students:

ISABEL MADDISON, 1894-95.

Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892; B.Sc., University of London, Mathematical Honours, 1893; Ph.D., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Fellow in Mathematics, Bryn Mawr College, 1893-94; Student in Mathematics, University of Göttingen, 1894-95; Assistant Secretary to the President, Bryn Mawr College, 1895-96; Secretary to the President and Reader in Mathematics, Bryn Mawr College, 1896-1900.

EDITH HAMILTON, 1895-96.

Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894. Fellow in Latin, Bryn Mawr College, 1894-95; Student in Greek and Latin, Universities of Leipsic and Munich, 1895-96; Head Mistress of the Bryn Mawr School, Baltimore, Md., 1896-1900.

WINIFRED WARREN, 1896-97.

Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894; Ph.D., Bryn Mawr College, 1898. Fellow in Latin, Bryn Mawr College, 1893-94, and Fellow by Courtesy, 1894-96; Student in Classical Philology, Universities of Munich and Berlin, 1896-97; Instructor in Latin, Vassar College, 1897-1900.

EMILIE NORTON MARTIN, 1897-98.

Ardmore, Pa. A.B., Bryn Mawr College, 1894. Graduate Student in Mathematics and Physics, Bryn Mawr College, First Semester, 1894-95, and 1896-97; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895; Fellow in Mathematics, Bryn Mawr College, 1895-96; Student in Mathematics, University of Göttingen, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1898-99; Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., and Private Tutor, 1899-1900.

FLORENCE PEEBLES, 1898-99.

Lutherville, Md. A.B., Woman's College of Baltimore, 1895. Graduate Scholar in Biology, Bryn Mawr College, 1895-96; Fellow in Biology, 1896-97, and Graduate Student in Biology, 1897-98; Scholar of the Women's Table and Student in Biology, Zoological Station, Naples, University of Munich, and University of Halle, 1898-99; Instructor in Biology, Woman's College of Baltimore, 1899-1900.

EDITH FRANCES CLAFLIN, 1899-1900.
Quincy Mass. A.B., Radcliffe College, 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1897-98, and Graduate Student in Greek and Latin, 1898-99; Student at the American School of Classical Studies, Athens, 1899-1900.

The President M. Carey Thomas Fellowship was established in 1896 by Miss Mary E. Garrett, of Baltimore, and has been held by the following students:

CLARA LANGENBECK, 1896-97.
Cincinnati, O. Ph.G., Cincinnati College of Pharmacy, 1890; S.B., University of Cincinnati, 1895. Fellow in Biology, Bryn Mawr College, 1895-96; Student in Biology, University of Marburg, 1896-98; Professor of Biology, Wells College, 1898-1900.

ELLEN ROSE GILES, 1897-98.
Philadelphia, Pa. Wellesley College, 1892-93; A.B. and A.M., Bryn Mawr College, 1896. Graduate Scholar in Semitic Languages, Bryn Mawr College, 1896-97, and Graduate Scholar in Philosophy, 1897-98; Student in Philosophy, University of Berlin, 1898-99; Sorbonne and Collège de France, 1899.

LIZZIE REBECCA LAIRD, 1898-99.
Owen Sound, Ont. A.B., University of Toronto, 1896. Teacher in Ontario Ladies' College, 1896-97; Fellow in Physics, Bryn Mawr College, 1897-98; Student in Physics, University of Berlin, 1898-99.

FLORENCE PARTHENIA LEWIS, 1899-1900.
Fort Scott, Kan. A.B., University of Texas, 1897, and A.M., 1898. Fellow in Philosophy, Bryn Mawr College, 1898-99; Student in Philosophy at the Sorbonne and Collège de France, 1899-1900.

A fellowship in Greek was established by the Trustees in 1885, and has been held by the following students:

KITTY AUGUSTA GAGE, 1885-86.
Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, N. Y., 1893-1900.

SARAH E. SATTERTHWAITE LESLIE,* 1886-87.
Marine City, Mich. A.B., University of Michigan, 1886.

HELEN LOUISA LOVELL MILLION,† 1887-88.
Flint, Mich. A.B., University of Michigan, 1887. Graduate Student, University of Michigan, 1888-89; Teacher of Latin and History in the Girls' Classical School, Indianapolis, Ind., 1889-90; Associate in Greek and Latin, Woman's College of Baltimore, 1890-91, and Associate Professor, 1891-93; Acting Professor of Greek and Latin, Earlham College, 1893-94; Graduate Student, University of Chicago, 1894-95, and Fellow in Greek, University of Chicago, 1895-96; Professor of Greek, Hardin College, Mexico, Mo., 1896-1900.

KATHARINE MAY EDWARDS, 1888-89.
Ithaca, N. Y. A.B., Cornell University, 1888, and Ph.D., 1895. Instructor in Greek, Wellesley College, 1889-93; Graduate Student, Cornell University, 1893-94; Associate Professor of Greek, Wellesley College, 1894-1900.

SUSAN BRALEY FRANKLIN, 1889-90.
Newport, R. I. A.B., Bryn Mawr College, 1889, and Ph.D., 1895. Fellow by Courtesy in Greek, Bryn Mawr College, 1890-93; Holder of the American Fellowship of the Association of Collegiate Alumnae, 1892-93; Instructor in Latin, Vassar College, 1893-97; American School of Classical Studies, Athens, and University of Berlin, 1898-99; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1897-98, and 1899-1900.

* Mrs. Francis Alexander Leslie, 1890.

† Mrs. John Wilson Million, 1896.

- ELIZABETH HARRIS KEISER,* 1890-91.
Philadelphia, Pa. A.B., Bryn Mawr College, 1890, and A.M., 1891. Teacher of Greek and Latin in the Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1892-96.
- FLORENCE V. KEYS, 1891-92.
Toronto, Ont. A.B., University of Toronto, 1891. Fellow in English, Bryn Mawr College, 1892-93; Examiner in English, University of Toronto, 1894-95; Reader in English, Bryn Mawr College, 1893-97, and Graduate Student in English, 1895-96; University of Oxford, England, 1897-98, University of Berlin, 1898-99; Instructor in English, Vassar College, 1899-1900.
- WILMER CAVE FRANCE, 1892-93.
Tysley, Worcestershire, England. Mason College, Birmingham, England, 1885-87; Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892; Ph.D., University of Chicago, 1895. Fellow in Latin, University of Chicago, 1893-94; Fellow in Greek, University of Chicago, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96; Reader in Classical Literature, Bryn Mawr College, 1897-99, and Associate in Classical Literature, 1899-1900.
- ELIZABETH MARY FAIRCLOUGH, 1893-94.
Hamilton, Ont. A.B., McGill University, 1893. Private tutor, 1898-99.
- ANNIE GOODE PASCHALL,† 1894-95.
Atlanta, Ga. A.B., Vanderbilt University, 1894.
- ELEANOR PURDIE, 1895-96.
London, England. Newnham College, University of Cambridge, England, 1890-94; Classical Tripos, Part I, First Class, 1893; Part II., 1894; Ph.D., University of Freiburg, 1897. Holder of the Marion Kennedy Studentship, and Student in Indo-European Philology, University of Freiburg, 1894-95; Classical Mistress in the Notting Hill High School, London, 1897-98; Head Classical Tutor, Cheltenham Ladies' College, Cheltenham, England, 1898-1900.
- CAROLINE GARNAR BROMBACHER, 1896-97.
Brooklyn, New York City. A.B., Barnard College, 1895. Assistant Teacher of Mathematics and Latin in the Erasmus Hall High School, Brooklyn, New York City, 1897-99, and Teacher of Mathematics and Greek, 1899-1900.
- MINNIE BEATRICE REYNOLDS, 1897-98.
Upper Lake, Cal. A.B., University of California, 1895, and A.M., 1897. Instructor in Greek and Latin in the High School, Centerville, Cal., 1896-97; Fellow by Courtesy in Greek, Bryn Mawr College, 1898-99; Teacher of Latin in the Misses Shipley's School, Bryn Mawr, Pa., 1898-99; Instructor in Latin, Vassar College, 1899-1900.
- CHARLOTTE WILLIAMS HAZELWOOD, 1898-99.
Ellsworth, Me. A.B., Wellesley College, 1891. Teacher of Greek and Latin in the Classical High School, Lynn, Mass., 1891-96; Graduate Student, Yale University, 1896-97, and Graduate Scholar, 1897-98.
- LIDA SHAW KING, 1899-1900.
Providence, R. I. A.B., Vassar College, 1890; A.M., Brown University, 1894. Fellow in Greek, Vassar College, 1894-95; Graduate Student in Greek and Greek History, Harvard University, 1897-98; Student at the American School of Classical Studies, Athens, 1899-1900.

A fellowship in Latin was established by the Trustees in 1892, and has been held by the following students :

- ESTHER BOISE VAN DEMAN, 1892-93.
Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892; Ph.D., University of Chicago, 1898. Instructor in Latin, Wellesley College, 1893-95; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., 1895-96; Fellow in Latin, University of Chicago, 1896-98; Acting Professor of Latin, Mt. Holyoke College, 1898-99, and Associate Professor of Latin, 1899-1900.

* Mrs. Edward H. Keiser, 1896.

† Deceased, 1895.

WINIFRED WARREN, 1893-94.

Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894; Ph.D., Bryn Mawr College, 1898. Fellow by Courtesy in Latin, Bryn Mawr College, 1894-96; Holder of the Mary E. Garrett European Fellowship, and Student in Classical Philology, Universities of Munich and Berlin, 1896-97; Instructor in Latin, Vassar College, 1897-1900.

EDITH HAMILTON, 1894-95.

Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894; Holder of the Mary E. Garrett European Fellowship, and Student in Greek and Latin, Universities of Leipsic and Munich, 1895-96; Head Mistress of the Bryn Mawr School, Baltimore, Md., 1896-1900.

JENNETTE ATWATER STREET, 1895-96.

Toronto, Ont. A.B., University of Toronto, 1895. Teacher of Classics, St. Margaret's College, Toronto, 1897-98, and Instructor in Greek, Latin, and English, 1898-1900.

MABEL WHITMAN BAKER, 1896-97.

Washington, D.C. Columbian University, 1893-95; Teacher in Norwood Institute, Washington, 1895-96; Teacher of Latin in the Western High School, Washington, 1897-1900.

MARIETTA JOSEPHINE EDMAND, 1897-98.

Blue Mounds, Wis. A.B., Central University of Iowa, 1887, and A.M., 1890; A.B., and A.M., University of Chicago, 1897. Assistant in Academic Department, Iowa Wesleyan University, 1887-90; and Principal of Academic Department, 1890-93; Professor of Latin, Iowa Wesleyan University, 1893-95; Graduate Student in Greek and Latin, University of Chicago, 1895-97; Professor of Latin and Greek, Milwaukee-Downer College, Milwaukee, Wis., 1898-99, and Professor of Latin, 1899-1900.

MARY HELEN RITCHIE, 1898-99.

Falls of Schuylkill, Pa. A.B., Bryn Mawr College, 1896, and A.M., 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1896-97, and Graduate Student in Greek and Latin, 1897-98; Secretary of Bryn Mawr College, 1899-1900.

HATTIE JOSEPHINE GRIFFIN, 1899-1900.

Madison, Wis. A.B., University of Wisconsin, 1898. Alumni Fellow in Latin, University of Wisconsin, 1898-99.

A fellowship in English was established by the Trustees in 1885, and has been held by the following students:

MARY GWINN, 1885-87.

Baltimore, Md. University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Ph.D., Bryn Mawr College, 1888. Graduate Student in English, Bryn Mawr College, 1887-88; Associate in English, Bryn Mawr College, 1888-93; Associate Professor of English, Bryn Mawr College, 1893-97; and Professor of English, 1897-1900.

GERTRUDE H. MASON, 1887-88.

San José, Cal. Ph.B., University of Michigan, 1876, and Ph.M., 1888. Graduate Scholar in English, University of Michigan, 1888-89; Teacher of English in the High School, Petaluma, Cal., 1889-95; Teacher in the High School, San Diego, Cal., 1895-96; Teacher in the Kern County High School, Bakersfield, Cal., 1897-98; Teacher of English in the Union High School, Haywards, Cal., 1899-1900.

IDA WOOD, 1888-89.

Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889; Ph.D., Bryn Mawr College, 1891. Graduate Student in English, Bryn Mawr College, 1887-88 and 1889-91; and Fellow by Courtesy, 1890-91; Secretary of the Woman's Department of the University of Pennsylvania, 1892-93; Secretary of the Bryn Mawr School, Baltimore, Md., 1894-96.

MABEL PARKER CLARK HUDDLESTON,* 1889-90.

New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College, and Graduate Student in English and French, 1890-93; Graduate Student in English and French, Columbia College, 1893-94.

* Mrs. John Henry Huddleston, 1894.

KATHARINE MERRILL, 1890-91.

Abilene, Kan. A.B., University of Kansas, 1889. Graduate Student in English, Bryn Mawr College, 1889-90; Harvard Annex, 1891-92; Assistant Professor of English Language and Literature, University of Illinois, 1892-97; Fellow in English, University of Chicago, 1897-98.

MARGUERITE SWEET, 1891-92.

Albany, N. Y. A.B., Vassar College, 1887; Ph.D., Bryn Mawr College, 1892. Graduate Student in Teutonic Philology and English, Bryn Mawr College, 1889-90, and Graduate Scholar in Teutonic Philology, 1890-91; Instructor in English, Vassar College, 1892-97; Professor of English Literature, Mt. Holyoke College, 1897-99; Teacher of English in the Misses Ely's School, New York City, 1899-1900.

FLORENCE V. KEYS, 1892-93.

Toronto, Ont. A.B., University of Toronto, 1891. Fellow in Greek, Bryn Mawr College, 1891-92; Graduate Student in English, Bryn Mawr College, 1895-96; Examiner in English, University of Toronto, 1894-95; Reader in English, Bryn Mawr College, 1893-97; University of Oxford, England, 1897-98; University of Berlin, 1898-99; Instructor in English, Vassar College, 1899-1900.

HELEN BARTLETT, 1893-94.

Peoria, Ill. A.B., Bryn Mawr College, 1892, A.M., 1893, and Ph.D., 1896. Newnham College, University of Cambridge, England, 1889; studied in Berlin, 1882-84, and 1890; Graduate Student in English, Bryn Mawr College, 1892-93; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in English and German, Bryn Mawr College, 1894-95; Instructor in German and French in the Portland Academy, Portland, Ore., 1896-97; Dean of Women, Assistant Professor and Head of Department of German in the Bradley Polytechnic Institute, Peoria, 1897-1900.

LAURA LUCINDA JONES, 1894-95.

Toronto, Ont. A.B., University of Toronto, 1891. Teacher of Modern Languages in the Collegiate Institute, Kingston, Ont., 1895-97; Teacher of English and Student in German in the Höhere Töchter Schule Segeler, Eberswalde, Berlin, 1897-98; Teacher of English, French, and German in the Collegiate Institute, Cobourg, Ont., 1898-1900.

PHEBE A. B. SHEAVYN, 1895-96.

Atherstone, England. Scholar, University College of Wales, Aberystwyth, Wales, 1887-89, and 1892-94; A.B., University of London, 1889, and A.M., 1894. Member of Governing Court of University of Wales, 1894; Reader in English, Bryn Mawr College, 1894-95; Lecturer and Tutor in English Literature to the Association for Promoting the Education of Women in Oxford, England, 1896-1900; Resident Tutor in English, Somerville College, University of Oxford, England, 1897-1900.

MARY DELIA HOPKINS, 1896-97.

Clinton, N.Y. A.B. and A.M., Bryn Mawr College, 1896. Graduate Student in English, Bryn Mawr College, 1897-98, and Reader in English, 1897-98 and 1899-1900.

GEORGIANA GODDARD KING, 1897-98.

Norfolk, Va. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1896, and A.M., 1897. Fellow in Philosophy, Bryn Mawr College, 1896-97; Student at the Collège de France, First Semester, 1898-99; Teacher of English, Philosophy, and Art in the Misses Graham's School, New York City, 1899-1900.

CARRIE ANNA HARPER, 1898-99.

Charlestown, Mass. A.B., Radcliffe College, 1896, and A.M., 1898. Graduate Scholar in English, Bryn Mawr College, 1896-97; Graduate Student in English, Radcliffe College, 1897-98; Teacher of English in the Cambridge School, Cambridge, Mass., 1899-1900.

LAURETTE EUSTIS POTTS, 1899-1900.

Philadelphia, Pa. A.B., Bryn Mawr College, 1897. Mistress of Pembroke Hall East, Bryn Mawr College, 1895-96; Sorbonne and Collège de France, 1896-97; Graduate Student in English, Bryn Mawr College, 1897-98, and Reader in English, 1897-99.

A fellowship in Teutonic Languages was established by the Trustees in 1893, and has been held by the following students:

- HELEN WINNIFRED SHUTE, 1893-94.
Exeter, N.H. A.B., Smith College, 1887. Assistant in German, Smith College, 1887-93; Fellow by Courtesy in German and Teutonic Philology, Bryn Mawr College, 1894-95; Student in Teutonic Philology, University of Göttingen, 1895-99.
- MINNA STEELE SMITH, 1894-96.
Edinburgh, Scotland. Newnham College, University of Cambridge, England, 1890-94; Medieval and Modern Languages Tripos, First Class, 1893; Assistant Lecturer in English, Newnham College, 1896-98; Staff Lecturer in Medieval and Modern Languages, Newnham College, and Lecturer in English, Girton College, University of Cambridge, 1898-1900.
- MINNIE ELIZABETH HIGHET, 1896-97.
Cobourg, Ont. A.B., Victoria College, University of Toronto, 1891, and A.M., 1892; Ph.M., Cornell University, 1894, and Ph.D., 1895. Teacher of Modern Languages, Boumanville High School, 1892-93; Professor of Modern Languages, State Normal School, New Paltz, N. Y., 1897-1900.
- SOPHIE YHLEN OLSEN, 1899-1900.
Philadelphia, Pa. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in English and Teutonic Philology, Bryn Mawr College, 1898-99.

A fellowship in Romance Languages was established by the Trustees in 1893, and has been held by the following students:

- THÉRÈSE F. COLIN,* 1893-94.
Paris, France. Diplômée et agrégée, Académie de Neuchâtel, 1875; A.M., Leland Stanford, Jr., University, 1893; Ph.D., University of Pennsylvania, 1897. Muséum d'Histoire Naturelle, Paris, 1883-85; University of the City of New York, 1887-88; Reader in Romance Languages, and Graduate Student in Romance Philology, Bryn Mawr College, 1894-96; Student in Romance Philology and Literature, Sorbonne, Collège de France, Ecole des Hautes Etudes, Ecole des Chartes, Paris, 1895; Head of French Department in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1896-1900.
- ESTHER TONTANT DE BEAUREGARD, 1894-95.
New Orleans, La. A.B., University of Toronto, 1894. Ontario Normal College, 1895-96; Teacher of Modern Languages, Niagara Falls Collegiate Institute 1898-1900.
- ANNA LEWIS COLE, 1895-96.
Baltimore, Md. A.B., Woman's College of Baltimore, 1892, and A.M., 1894. Student in English and French, Sorbonne, 1894-95; Head Teacher of Modern Languages, Winthrop Normal and Industrial College, Rock Hill, S. C., 1897-1900.
- CHARLOTTE DE MACKLOT THOMPSON, 1896-97.
Baltimore, Md. A.B., Bryn Mawr College, 1896, and A.M., 1897. Student in Old Spanish under Prof. A. Marshall Elliott, Baltimore, 1897-98; Assistant in English, Bryn Mawr School, Baltimore, 1897-98; Student in Medieval History, Newnham College, University of Cambridge, England, 1898-99.
- EDITH FAHNESTOCK, 1897-98.
Harrisburg, Pa. L.B., Western Reserve University, 1894; University of Zürich, and Sorbonne, 1894-96; Mistress of Modern Languages, Mississippi Industrial Institute and College, Columbus, Miss., 1898-1900.
- CAROLINE BROWN BOURLAND, 1898-99.
Peoria, Ill. A.B., Smith College, 1893. Teacher of French and German in Mrs. Starratt's School, Oak Park, Ill., 1895-96, and in the High School, Peoria, 1896-97; Student, Sorbonne and Collège de France, 1897-98; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1899-1900.

* Mrs. Alfred Colin.

ANABELLE ROXBURGH HUTCHINSON, 1899-1900.
York, England. Newnham College, University of Cambridge, England, 1895-99; Mediæval
and Modern Languages Tripos, 1898.

A fellowship in History and Politics was established by the Trustees in 1885, and has been held by the following students :

JANE M. BANCROFT ROBINSON, * 1885-86.
West Stockbridge, Mass. Ph.B., Syracuse University, 1877, Ph.M., 1880, and Ph.D., 1884.
Professor of French Language and Literature, Northwestern University, 1877-85; University of Zürich, 1886-87; Sorbonne and Collège de France, 1888.

LUCY MAYNARD SALMON, 1886-87.
Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883-86; Associate Professor of History, Vassar College, 1887-89, and Professor of History, 1889-1900.

CORA AGNES BENNESON, 1887-88.
Quincy, Ill. A.B., University of Michigan, 1878, LL.B., 1880, and A.M., 1883. Attorney and Counsellor-at-Law, Cambridge, Mass., 1894-1900.

HANNAH ROBIE SEWALL, 1888-89.
St. Paul, Minn. A.B., University of Minnesota, 1884, and Ph.D., 1889; A.M., University of Michigan, 1887. Fellow by Courtesy in History, Bryn Mawr College, 1889-90; Assistant in Political Science, University of Minnesota, 1893-1900.

ELEANOR LOUISA LORD, 1889-90.
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890; Ph.D., Bryn Mawr College, 1898. Instructor in History, Smith College, 1890-94; Holder of the European Fellowship of the Women's Educational Association of Boston, and Student in History, Newnham College, University of Cambridge, England, 1894-95; Fellow in History, Bryn Mawr College, 1895-96; Instructor in History, Woman's College of Baltimore, 1897-1900.

AGNES MATHILDE WERGELAND, 1890-91.
Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, Munich, 1884-86; University of Zürich, 1888-90; Ph.D., University of Zürich, 1890. Reader in History of Art, Bryn Mawr College, 1891-93; Docent in History, University of Chicago, 1896-1900.

CAROLINE MILES HILL, † 1891-92.
Carthage, Ind. A.B., Earlham College, 1887; A.M., University of Michigan, 1890, and Ph.D., 1892. Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888-89; University of Michigan, 1889-91; Instructor in Philosophy and Political Economy, Mt. Holyoke College, 1892-93; Tutor in History, Wellesley College, 1893-94; Instructor in Psychology, 1894-95; University Extension Work, Chicago, Ill., 1897-1900.

JANE BOWNE HAINES, 1892-93.
Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92 and 1893-94; Associate Librarian, Bryn Mawr College, 1895-98; New York State Library School, Albany, N.Y., 1898-99.

JANE LOUISE BROWNELL, 1893-94.
Bristol, Conn. A.B., Bryn Mawr College, 1893, and A.M., 1894. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1894-1900, and Associate Mistress, 1897-1900.

NELLIE NEILSON, 1894-95.
Philadelphia, Pa. A.B., Bryn Mawr College, 1893, A.M., 1894, and Ph.D., 1899. Graduate Student in English and History, Bryn Mawr College, 1893-94; Holder of the American Fellowship of the Association of Collegiate Alumneæ, and Graduate Student in English and History, Bryn Mawr College, 1895-96; Research Work in History in Cambridge, England, and in the Public Record Office, London, 1896-97; Private Research Work and Teacher of History in Miss Irwin's School, Philadelphia, 1897-1900.

* Mrs. George O. Robinson, 1891. † Mrs. William Hill, 1895.

ELEANOR LOUISA LORD, 1895-96.
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890; Ph.D., Bryn Mawr College, 1898. Fellow in History, Bryn Mawr College, 1889-90; Instructor in History, Smith College, 1890-94; Holder of the European Fellowship of the Women's Educational Association of Boston, and Student in History, Newnham College, University of Cambridge, England, 1894-95; Instructor in History, Woman's College of Baltimore, 1897-1900.

ELLEN MAUD GRAHAM, 1896-97.
Toronto, Ont. A.B., University of Toronto, 1896.

EMILY FOGG, 1897-98.
Chicago, Ill. Wellesley College, 1889-91; A.B., University of Chicago, 1897. Graduate Scholar and Fellow by Courtesy in History, Bryn Mawr College, 1898-99; Fellow in Sociology, University of Pennsylvania, 1899-1900.

EDITH BRAMHALL, 1898-99.
Chicago, Ill. A.B., University of Indiana, 1895; A.M., University of Pennsylvania, 1896; and Ph.D., 1898. Teacher of History in the Manual Training High School, Indianapolis, Ind., 1899-1900.

RUTHIELLA BERNARD MORY, 1899-1900.
Baltimore, Md. A.B., Woman's College of Baltimore, 1897; Ph.M., University of Chicago, 1899. Student in English and History, University of Oxford, England, 1897-98; Graduate Student in History and History of Art, University of Chicago, 1898-99.

A fellowship in Philosophy was established by the Trustees in 1896, and has been held by the following students:

GEORGIANA GODDARD KING, 1896-97.
Norfolk, Va. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1896 and A.M., 1897. Fellow in English, Bryn Mawr College, 1897-98; Student at the Collège de France, First Semester, 1898-99; Teacher of English, Philosophy, and Art, in the Misses Graham's School, New York City, 1899-1900.

FLORENCE PARTHENIA LEWIS, 1898-99.
Fort Scott, Kan. A.B., University of Texas, 1897, and A.M., 1898. Holder of the President's European Fellowship and Student in Philosophy, Sorbonne and Collège de France, 1899-1900.

MARY KEYT ISHAM, 1899-1900.
Cincinnati, O. A.B., Wellesley College, 1894; A.M., University of Cincinnati, 1898. Graduate Student in Philosophy and Psychology, University of Cincinnati, 1897-98; Graduate Student in Philosophy and Psychology, University of Chicago, 1898-99.

A fellowship in Mathematics was established by the Trustees in 1885, and has been held by the following students:

ELLA C. WILLIAMS, 1885-86.
Watkins, N. Y. A.M., University of Michigan, 1880; Studied under Professor Schwarz of Göttingen, 1883-85; Newnham College, University of Cambridge, England, spring term, 1884; Teacher of Mathematics in Miss Moses's School, New York City, 1886-87; Teacher of Mathematics in the State Normal School, Plymouth, N. H., 1887-89; Teacher of Mathematics in Miss Spence's School, New York City, 1896-98.

ANNE A. STEWART, 1886-87.
West Bay, Nova Scotia. Studied in University College, London, 1880-82; B.Sc., Dalhousie College, 1886. Teacher of Mathematics in Miss Mary E. Stevens's School, Germantown, Philadelphia, 1887-93 and 1895-96; Student in Mathematics and Physics, Newnham College, University of Cambridge, England, 1893-95; Teacher of Mathematics in the Stevens School, Germantown, Philadelphia, 1896-99.

- ELIZABETH MILLER BLANCHARD**, 1889-90.
 Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1891-92; Tutor in Mathematics in the Misses Shipley's School, Bryn Mawr, Pa., 1894-1900; Tutor in Mathematics in Miss Irwin's School, Philadelphia, 1896-1900.
- RUTH GENTRY**, 1890-91.
 Stilesville, Ind. Ph.B., University of Michigan, 1890; Ph.D., Bryn Mawr College, 1896. Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics, University of Berlin, 1891-92; Student at the Sorbonne, and Fellow in Mathematics, Bryn Mawr College, 1892-93, and Fellow by Courtesy, 1893-94; Instructor in Mathematics, Vassar College, 1894-1900.
- MARY FRANCES WINSTON**, 1891-92
 Forreston, Ill. A.B., University of Wisconsin, 1889; Ph.D., University of Göttingen, 1896. Teacher of Mathematics, Downer College, Wisconsin, 1889-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, 1893-94; Student in Mathematics, University of Göttingen, 1893-96; Professor of Mathematics, Kansas State Agricultural College, 1897-1900.
- RUTH GENTRY**, 1892-93.
 Stilesville, Ind. Ph.B., University of Michigan, 1890; Ph.D., Bryn Mawr College, 1896. Fellow in Mathematics, Bryn Mawr College, 1890-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics, University of Berlin, 1891-92, Sorbonne, 1892-93; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1893-94; Instructor in Mathematics, Vassar College, 1894-1900.
- ISABEL MADDISON**, 1893-94.
 Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892; B.Sc., University of London, Mathematical Honours, 1893; Ph.D., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Holder of the Mary E. Garrett European Fellowship, and Student in Mathematics, University of Göttingen, 1894-95; Assistant Secretary to the President, Bryn Mawr College, 1895-96; Secretary to the President and Reader in Mathematics, Bryn Mawr College, 1896-1900.
- FRANCES HARDCASTLE**, 1894-95.
 London, England. Girton College, University of Cambridge, England, 1888-92; Mathematical Tripos, Part I., 1891; Part II., 1892. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Honorary Fellow in Mathematics, University of Chicago, 1893-94; Graduate Student in Mathematics, Girton College, University of Cambridge, 1895-96.
- EMILIE NORTON MARTIN**, 1895-96.
 Ardmore, Pa. A.B., Bryn Mawr College, 1894. Graduate Student in Mathematics and Physics, Bryn Mawr College, First Semester, 1894-95, and 1896-97; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1898-99; Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., and private tutor, 1899-1900.
- FANNY COOK GATES**, 1896-97.
 Waterloo, Ia. L.B., Northwestern University, 1894, and L.M., 1895. Fellow in Mathematics, Northwestern University, 1894-95; Graduate Scholar in Mathematics, Bryn Mawr College, 1895-96; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics and Physics, University of Göttingen, 1897-98; Instructor in Physics, Woman's College of Baltimore, 1898-1900.
- GERTRUDE LONGBOTTOM**, 1897-98.
 Louth, Lincolnshire, England. Girton College, University of Cambridge, England, 1893-97; Mathematical Tripos, Part I., 1896; Part II., 1897. Teacher of Latin in the Municipal Technical School, Louth, 1899-1900.
- LOUISE D. CUMMINGS**, 1898-99.
 Hamilton, Ont. A.B., University of Toronto, 1895. Fellow in Mathematics, University of Pennsylvania, 1896-97; Examiner in Mathematics, University of Toronto, 1897; Graduate Student, University of Chicago, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1900.
- ANNIE LYNDESAY WILKINSON**, 1899-1900.
 Cleveland, O. A.B., Vassar College, 1887, and A.M., 1898. Babbitt Fellow of Vassar College and Graduate Scholar in German and Mathematics, Bryn Mawr College, 1898-99.

A fellowship in Physics was established by the Trustees in 1896, and has been held by the following students :

- FRANCES LOWATER, 1896-97.
Nottingham, England. University College, Nottingham, 1888-91 and 1892-93; Newnham College, University of Cambridge, England, 1891-92. Secretary of Bryn Mawr College, 1898-99; Demonstrator in Physics, Bryn Mawr College, 1893-96, 1897-98, and 1899-1900, and graduate Scholar in Physics, 1897-98.
- LIZZIE REBECCA LAIRD, 1897-98.
Owen Sound, Ont. A.B., University of Toronto, 1896. Teacher in Ontario Ladies' College, 1896-97; Holder of the President's European Fellowship, and Student in Physics, University of Berlin, 1898-99.

A fellowship in Chemistry was established by the Trustees in 1893, and has been held by the following students :

- EMMA HARRIET PARKER, 1893-94.
Charleston, N. H. S.B., Smith College, 1887. Graduate Student in Chemistry, Bryn Mawr College, 1892-93, and Graduate Scholar in Chemistry, 1894-95; Instructor in Chemistry, Wellesley College, 1895-97; Teacher of Science, New Bedford High School, New Bedford, Mass., 1898-1900.
- AMY CORDOVA ROCK RANSOME,* 1894-95.
Washington, D. C. A.B., Bryn Mawr College, 1893. Assistant in Chemical Laboratory, and Graduate Student in Chemistry, Bryn Mawr College, 1893-94; Student in Chemistry, Mineralogy, and Physics, University of Heidelberg, 1895-96; Student in Mineralogy and Geology, University of Berlin, 1896-97.
- MARY PETTY, 1895-96.
Greensboro, N. C. S.B., Wellesley College, 1885. Teacher of Latin, Guilford College, 1888-93; Teacher of Chemistry and Physics, in the State Normal School, Greensboro, 1893-95, and 1896-98, and Professor of Chemistry, 1898-1900.
- CHARLOTTE FAIRBANKS, 1896-97.
St. Johnsbury, Vt. A.B., Smith College, 1894; Ph.D., Yale University, 1896. Graduate Student, Yale University, 1894-96; Instructor in Chemistry, Wellesley College, 1897-99; Student, Woman's Medical College of Pennsylvania, 1899-1900.
- MARY CLOYD BURNLEY, 1897-98.
Williamsport, Pa. A.B., Woman's College of Baltimore, 1897, and A.M., 1899. Assistant in Chemistry, Vassar College, 1898-1900.
- MARGARET BAXTER MACDONALD, 1898-99.
Charlottesville, Va. B.S., Mt. Holyoke College, 1898. Student Assistant in Chemical Laboratory, Mt. Holyoke College, 1895-97; Graduate Scholar in Philosophy and Chemistry, Bryn Mawr College, 1897-98; Pepper Fellow in Chemistry; University of Pennsylvania, 1899-1900.
- MARIE REIMER, 1899-1900.
East Aurora, N.Y. A.B., Vassar College, 1897. Graduate Scholar in Chemistry, Vassar College, 1897-98; Assistant in the Chemical Laboratory, Vassar College, 1898-99.

A fellowship in Biology was established by the Trustees in 1885, and has been held by the following students:

- EFFIE A. SOUTHWORTH SPALDING,† 1885-86.
North Collins, N.Y. S.B., University of Michigan, 1885. Student Assistant in the Biological Laboratory, Bryn Mawr College, 1886-87; Assistant Mycologist of the United States Agricultural Bureau, Washington, D. C., 1887-92; Assistant in Botany, Barnard College, 1892-95.
- MARCELLA I. O'GRADY BOVERI,‡ 1887-89.
Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator in Biology, Bryn Mawr College, 1887-89; Associate Professor of Biology, Vassar College, 1889-93; Professor of Biology, Vassar College, 1893-97.

* Mrs. Frederick Leslie Ransome, 1899.

† Mrs. Volney Morgan Spalding, 1896.

‡ Mrs. Theodor Boveri, 1897.

- HARRIET RANDOLPH, 1889-90.
Philadelphia, Pa. A.B., Bryn Mawr College, 1889; Ph.D., University of Zürich, 1892. Student, University of Zürich, 1890-92; Demonstrator in Biology, Bryn Mawr College, 1892-1900, and Reader in Botany, 1893-1900; Graduate Student in Italian Art, Bryn Mawr College, 1896-97.
- JEAN KIRK HOWELL, 1891-92.
Painted Post, N. Y. Ph.B., Cornell University, 1888, and S.M., 1890. Assistant in Botany, Barnard College, 1892-96; Teacher of Science in the Phillips High School, Watertown, Mass., 1898-99; Teacher of Science in Miss Ingol's School, Cambridge, Mass., 1899-1900.
- IDA H. HYDE, 1892-93.
Chicago, Ill. S.B., Cornell University, 1891; Ph.D., University of Heidelberg, 1896. Student Assistant in Biology, Bryn Mawr College, 1891-92; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Biology, University of Strassburg, 1893-94; Holder of the Phebe Hunt Fellowship of the Association of Collegiate Alumnae and Student in Biology, University of Heidelberg, 1894-96; Teacher of Science in Miss Ingol's School, Cambridge, Mass., 1898-99; Associate Professor of Physiology, University of Kansas, 1899-1900.
- ELIZABETH NICHOLS MOORES,* 1893-94.
Philadelphia, Pa. A.B., Bryn Mawr College, 1893. Graduate Student in Biology, Bryn Mawr College, 1894-95; Teacher of Science in the Girls' High School, Philadelphia, 1895-96.
- ESTHER F. BYRNES, 1894-95.
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, A.M., 1894, and Ph.D., 1898. Demonstrator in the Biological Laboratory, Vassar College, 1891-93; Graduate Scholar in Biology, Bryn Mawr College, 1893-94, and Graduate Student in Biology, 1895-97; Instructor in Physiology in the Girls' High School, Brooklyn, New York City, 1897-98, and Senior Teacher of Physiology and Teacher of Zoology, 1898-1900.
- CLARA LANGENBECK, 1895-96.
Cincinnati, O. Ph.G., Cincinnati College of Pharmacy, 1890; S.B., University of Cincinnati, 1895. Assistant in Biology, University of Cincinnati, 1893-95; Holder of the President's European Fellowship, Bryn Mawr College, 1896-97; Student in Biology, University of Marburg, 1896-98; Professor of Biology, Wells College, 1898-1900.
- FLORENCE PEEBLES, 1896-97.
Lutherville, Md. A.B., Woman's College of Baltimore, 1895. Graduate Scholar in Biology, Bryn Mawr College, 1895-96; and Graduate Student in Biology, 1897-98; Holder of the Mary E. Garrett European Fellowship, Scholar of the Women's Table and Student in Biology, Zoological Station, Naples, University of Munich, University of Halle, 1898-99; Instructor in Biology, Woman's College of Baltimore, 1899-1900.
- HELEN DEAN KING, 1897-98.
Owego, N. Y. A.B., Vassar College, 1892. Graduate Student in Biology, Vassar College, and Assistant in the Biological Laboratory, 1894-95; Graduate Scholar in Biology, Bryn Mawr College, 1895-96; Graduate Student in Biology, 1896-97, and Fellow by Courtesy in Biology, 1898-1900.
- ANNAH PUTNAM HAZEN, 1898-99.
Olcott, Vt. L.B., Smith College, 1895; S.M., Dartmouth College, 1897. Graduate Student in Biology, Dartmouth College, 1895-96; Graduate Scholar in Biology, Bryn Mawr College, 1897-98; Teacher of Biology in the State Normal School, Plymouth, N. H., 1899-1900.
- ELIZABETH WILLIAMS TOWLE, 1899-1900.
New Haven, Conn. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in Physics and Biology, Bryn Mawr College, 1898-99.

* Mrs. Charles W. Moores, 1896.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, five miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who purposed founding an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn.

Three classes of persons are admitted to the lectures and class work of the college—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately. No undergraduates are admitted to graduate courses.

Regulations of the Graduate Department.

From the first it has been the policy of the Trustees of Bryn Mawr College to organise no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years leads to the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one year and offered as one of the two minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may pursue any courses

* The certificates of the women's colleges of the English universities of Oxford and Cambridge, are regarded as equivalent to a first degree,—i.e., to the degree of Bachelor of Arts.

offered by the college for which their previous training has fitted them; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors, and their needs will be considered in the arrangement of new courses of lectures. They may enroll themselves either as students in some special department or as candidates for a second degree; in either case they must consult the President in regard to the courses they are to pursue, and must be duly registered for those courses at the president's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiencies in this respect.

Fellowships and Scholarships.

The most distinguished place among graduate students is held by the Fellows, who must reside in the college during the academic year. Eleven resident fellowships, of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic philology, one in Romance languages, one in history or political science, one in philosophy, one in mathematics, one in physics, one in chemistry, and one in biology. These fellowships are awarded as an honour in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing, that have completed one year of graduate study. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the fellowship is given to the candidate that has studied longest, or whose work affords the best promise of future success. The holder of a fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result.

Fellows are expected to attend all college functions, to wear academic dress, to assist in the conduct of examinations, and to give about an hour a week to the care of the special libraries in the halls of residence and in the seminaries, but no such service may be required of them except by a written request from the president's office. All Fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Fellows that continue their studies at the college after the expiration of the fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Eight Graduate Scholarships, of the value of two hundred dollars each, may, on the recommendation of the head of the department in question, be awarded to the candidates next in merit to the successful candidates for the fellowships; they are open also to all graduates of Bryn Mawr College or of other colleges of good standing.

Two European Fellowships, founded by Miss Garrett, of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, is awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary E. Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr College. These fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the Faculty.

Applications for the resident fellowships or scholarships should be made as early as possible, and must be made not later than the fifteenth of April preceding the year for which the fellowship or scholarship is desired. Blank forms of application will be forwarded to the applicant by the President of the College. A definite answer will be given within two weeks of the last date fixed for application.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Graduate Committee of the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the degree of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy and Master of Arts may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Graduate Committee that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent collegiate studies.

The candidate must have pursued for at least three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Academic Council, and must have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Graduate Committee, by whom, after due consultation with the heads of the departments concerned, it is submitted to the Academic Council.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected ; and the degree of Doctor of Philosophy is given to no one who cannot

read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candidate before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

The Degree of Master of Arts.

A separate degree of Master of Arts may be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to ten hours a week, or graduate courses equivalent to ten hours a week of undergraduate work. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

Expenses.

The charge for tuition is one hundred and twenty-five dollars a year, irrespective of the number of courses attended, or of the actual time of attendance, and is payable in advance.

There is an additional charge of ten dollars a semester for materials and apparatus for every laboratory course of four or more hours a week, and of five dollars a semester for every laboratory course of less than four hours a week. The laboratory course in palæontology is an exception, the fee being five dollars a semester for five hours of laboratory work a week. Students taking the general course in geology pay a fee of eight dollars a semester, five dollars being the laboratory fee and three dollars a charge made to defray the expenses of the excursions.

A special exception is made in favor of non-resident graduate students, who are charged for a single course, or for two or more courses, counting as four or five hours a week throughout the year, fifty dollars, the laboratory charges being the same for them as for other students.

Residence.

Residence in the college buildings is optional except for holders of resident fellowships and scholarships. The expense of board and residence in the graduate wings of the college halls is two hundred and seventy-five dollars. Of this amount one hundred and fifty dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-rent, and is payable yearly in advance. Every student has a separate bedroom. Room-rent includes all expense of furnishing, service, heating, and light.

Dr. Martha E. Osmond, a physician practising in Philadelphia, spends two afternoons a week, from two to six, at her office in the college, and may then be consulted by resident and non-resident graduate and undergraduate students free of charge. The conduct of the students in all matters not purely academic, or affecting the management of the halls of residence, or the student body as a whole, is in the hands of the Students' Association for Self-Government. All resident students of Bryn Mawr College, whether graduates or undergraduates, are members of this association.

In 1893 the Bryn Mawr Graduate Club was organised by the graduate students then in residence, its object being to further the social life of the graduate students and to facilitate interchange of opinion with other colleges and universities doing graduate work. A suite of rooms in Denbigh Hall is set apart by the college to be used by the members as a club-room. Informal meetings are held frequently in these rooms, and several times during the year the club invites the Faculty and friends of the college to larger social gatherings, which are addressed by well-known speakers. The club belongs to the Federation of Graduate Clubs and sends its representatives to the meetings of the Federation.

Plans of the graduate wings of Radnor Hall, Denbigh Hall, Pembroke Hall West, and Pembroke Hall East, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls (except Pembroke, which has a common dining hall and kitchen for the two wings) has its separate kitchen and dining hall, and provides accommodation for about sixty students. In each hall of residence, except Merion Hall, a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no

undergraduate students are permitted to engage rooms in the graduate wings.

Application for rooms should be made as early as possible. Since the demand for graduate rooms is very great, and every room unnecessarily reserved may prevent some other student from entering the college, a deposit of fifteen dollars, which is deducted from the first college bill, is required before a room is assigned. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if formal notice of withdrawal is not filed at the secretary's office on or before May first of the current year.

All students reserving rooms who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, are responsible for the rent of the room for the entire academic year.

The rooms are completely furnished. No lamps, towels, table napkins, sheets, or supplies of any kind need be provided by the student. Every student is provided with a student's lamp, which is filled daily by the college servants. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms are sufficiently heated by steam. The students' personal washing may be done by any laundry recommended by the college for 50 cents a dozen, or about \$8 a half-year for one dozen pieces a week. Accommodation is provided for students that wish to remain at the college during the Christmas and Easter vacations at a rate proportional to that paid by them for board and residence during the college year. No charge is made for sending meals to students that are in the infirmaries by the order of a physician.

The charge for tuition is \$125 a year, payable in advance.

The charge for residence in the graduate wings of the college halls, exclusive of board, is \$125 a year, payable in advance.

The charge for board is \$150 a year, payable half-yearly in advance. The charges for tuition and room-rent for the year, and for board for the first semester must be paid at the bursar's office before November 1st; the charge for board for the second semester must be paid before March 1st. The charges for tuition and room-rent are not subject to return or deduction under any circumstances; in case of prolonged illness and absence from the college extending over six weeks or more there is a proportional reduction in the charge for board. Students whose fees are not paid by the dates above specified will not be allowed to continue in residence or in attendance on their lectures.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It is as a rule applied to the assistance of those students only who have attended courses in the college for at least one year. The Fund is managed by a committee consisting of the President of the College and representatives of the Association of Bryn Mawr College Alumnae. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The committee consists of the following members: President M. Carey Thomas; Mrs. William H. Collins, Chairman, Haverford, Pa.; Miss Martha G. Thomas, Secretary and Treasurer, Whitford, Pa.; Mrs. John Howell Westcott, Princeton, N. J.; Miss Mildred Minturn, 109 E. Twenty-first Street, New York City; Miss Elizabeth B. Kirkbride, 1406 Spruce Street, Philadelphia. Contributions may be sent to any member of the committee. Application for loans for the ensuing year should be sent to the Chairman of the Committee before May 1st.

Libraries.

The fact that the college is situated in the suburbs of Philadelphia, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the college proper.

The college library has been collected within the past fifteen years, and is designed to be, as far as possible, a library for special study. There are at present on its shelves thirty thousand eight hundred and fifty-seven bound volumes, and eight thousand doctors' dissertations and pamphlets, including the classical library of the late Professor Sauppe, of Göttingen, which was presented to the college in 1894. The library of the late Professor Amiaud, of Paris, was acquired in 1892, and at present forms part of the library of the college. It is a good working library for the student in every department of Semitic study. A more detailed description of these two collections may be found on pages 38 and 54.

The sum of three thousand dollars is expended yearly for books, under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, over six thousand* dollars has been presented to the library during the past seven years for expenditure in special departments. Two hundred and seventy-three literary and philological periodicals and reviews in the Greek, English, German, French, Italian, Spanish, Norse, and Swedish languages, are taken by the library as follows:

Academy; Acta mathematica; *Advocate of peace; Allgemeines statistisches archiv; American anthropologist; *American economist; American friend; American geologist; American historical review; American journal of archæology; American journal of mathematics; American journal of philology; American journal of physiology; American

* Presented by the Publishers.

journal of psychology; American journal of Semitic languages; American journal of sociology; Americana Germanica; Anatomischer anzeiger; Anglia; Annalen der chemie; Annalen der physik und chemie; Annales de chimie et de physique; Annales de l'École normale supérieure; Annali di matematica; Annals of the American academy of political and social science; Archiv für anatomie und physiologie; Archiv für das studium der neueren sprachen und litteraturen; Archiv für die gesammte physiologie; Archiv für geschichte der philosophie; Archiv für lateinische lexicographie; Archiv für mikroskopische anatomie; Archiv für systematische philosophie; Archivio glottologico italiano; Arkiv for nordisk filologi; Athenæum; Atlantic monthly; Atti della Reale accademia delle scienze di Torino; Babylonian and Oriental record; Beiblätter zu den Annalen der physik und chemie; Beilage zur allgemeinen zeitung; Beiträge zur geschichte der deutschen sprache und litteratur; Beiträge zur kunde der indogermanischen sprachen; Berichte der Deutschen chemischen gesellschaft; Berliner philologische wochenschrift; Biblical world; * La bibliofilia; * Bibliographical contributions of Bowdoin college library; * Bibliographical contributions of Harvard university; Bibliotheca mathematica; Bibliotheca philologica classica; Bibliotheca sacra; Biologisches centralblatt; * Book reviews; Bookman; * Boston evening transcript; Botanisches centralblatt; Bulletin de correspondance hellénique; Bulletin de la Société des anciens textes français; Bulletin de la Société mathématique de France; Bulletin des sciences mathématiques; Bulletin hispanique; Bulletin of the American mathematical society; * Bulletin of bibliography; * Bulletin of the New York public library; * Bulletin of the University of Wisconsin; Centralblatt für physiologie; Century magazine; Chaucer society publications; Chemical news; City and state; Classical review; * Columbia university quarterly; Comptes rendus des séances de l'Académie des sciences; Contemporary review; Critic; La cultura; Cumulative index to periodicals; * Deaconess' advocate; Deutsche litteraturzeitung; Dial; Early English text society publications; Economic journal; Economic review; Economic studies; Educational review; Electrician; Englische studien; English historical review; Ephemeris archaeologica; Euphorion; Expositor; Expository times; * Fortnightly philistine; Fortnightly review; Forum; Französische studien; Friends' missionary advocate; Geographic journal; Geographische zeitschrift; Geological magazine; Germanic studies; Giornale dantesco; Giornale di matematiche di Battaglini; Giornale storico della letteratura italiana; Göttingische gelehrte anzeigen; Harper's magazine; Hartford seminary record; Hermes; Historische vierteljahrsschrift; Historische zeitschrift; Hochschul nachrichten; Indogermanische forschungen; International journal of ethics; Islendinga sögur; Jahrbuch der chemie; Jahrbuch der Deutschen Shakespeare gesellschaft; Jahrbuch des Kaiserlich deutschen archaeologischen instituts; Jahrbuch des Vereins für niederdeutsche sprachforschung; Jahrbuch für gesetzgebung; Jahrbuch über die fortschritte der mathematik; Jahresbericht für germanische philologie; Jahresbericht über die fortschritte der alterthumswissenschaft; Jahresbericht über die fortschritte der chemie; Jahresverzeichniss der an den deutschen schulanstalten erschienenen abhandlungen; Johns Hopkins university circulars; Johns Hopkins university studies; Journal de mathématiques; Journal für die reine und angewandte mathematik; Journal für praktische chemie; Journal of American folklore; Journal of biblical literature; Journal of germanic philology; Journal of morphology; Journal of pedagogy; Journal of philology; Journal of physiology; Journal of political economy; * Journal of the American academy of natural sciences; Journal of the Chemical society; Journal of the Royal microscopical society; Journal of the Royal statistical society; Journal of the Society for psychical research; * Kansas university quarterly; Korrespondenzblatt des Vereins für niederdeutsche sprachforschung; Kritischer jahrbuch über die fortschritte der romanischen philologie; * Lantern; Leipziger studien; Library journal; Literarisches centralblatt; * Literary era; * Literary news; * Literary world; Literaturblatt für germanische und romanische philologie; Literature; Mathematische annalen; Messenger of mathematics; Mind; Mineralogical magazine; Mineralogische und petrographische mittheilungen; * Missionary herald; Mittheilungen aus der Zoologischen station zu Neapel; Mittheilungen aus dem gebiete der englischen sprache und litteratur; Mittheilungen des Archæologischen instituts; Mnemosyne; Modern language notes; Monatshefte für chemie; * Money; Monist; * Monthly register of the Philadelphia C. O. S.; Nachrichten von der Königlichen gesellschaft der wissenschaften; Nation; National geographic magazine;

Nature; Nature notes; Neue deutsche rundschau; Neue jahrbücher für philologie und pädagogik; Neues jahrbuch für mineralogie, geologie und palæontologie; New York evening post; New York times; New York tribune; Nineteenth century; North American review; Nuova antologia; *Oberlin college bulletins; *Ohio bulletin of charities and corrections; Outlook; Pedagogical seminary; Pennsylvania magazine; *Philadelphia public ledger; Philologische untersuchungen; Philologus; Philosophical magazine; Philosophical review; Philosophische studien; Poet lore; Political science quarterly; Popular science monthly; Proceedings of the Academy of natural sciences; Proceedings of the Aristotelian society; Proceedings of the London mathematical society; Proceedings of the Royal society; Proceedings of the Society for psychical research; Psychological review; Psychologische arbeiten; *Publications of the American economic association; Publications of the American historical association; Publications of the American statistical association; *Publications of the Association of collegiate alumne; *Publications of the Jewish historical society; Publications of the Modern language association; Publishers' weekly; Punch; Quarterly journal of economics; Quarterly journal of mathematics; Quarterly journal of microscopical science; Quarterly journal of the Geological society; Quarterly review; Quellen und forschungen; Rassegna bibliografica; Rendiconti del Circolo matematico di Palermo; Review of reviews; Revue bleue; Revue celtique; Revue critique; Revue de métaphysique; Revue de philologie; Revue des deux mondes; Revue des questions historiques; Revue d'histoire littéraire de la France; Revue hispanique; Revue historique; Revue philosophique; Rheinisches museum für philologie; Rivista di filologia; Romania; Romanische forschungen; Romanische studien; Saturday review; Schriften der Goethe-gesellschaft; Science; Scottish text society publications; Scribner's magazine; *Sound currency; *Southern workman; Spectator; Studi italiani di filologia classica; Studies in history, economics, and public law; Studj di filologia romanza; *Sunday school times; *Technology review; Transactions of American philological association; Translations and reprints from original sources of European history; *University of Chicago record; *Washington book chronicle; Westminster review; Wharton school studies; *Wilson bulletin; Wochenschrift für klassische philologie; *Woman's journal; Yale review; Zeitschrift für anorganische chemie; Zeitschrift für assyriologie; Zeitschrift für das gymnasialwesen; Zeitschrift für den deutschen unterricht; Zeitschrift für deutsche philologie; Zeitschrift für deutsches alterthum; Zeitschrift für die österreichischen gymnasien; Zeitschrift für französische sprache; Zeitschrift für mathematik und physik; Zeitschrift für physikalische chemie; Zeitschrift für psychologie; Zeitschrift für romanische philologie; Zeitschrift für socialwissenschaft; Zeitschrift für vergleichende sprachforschung; Zeitschrift für wissenschaftliche zoologie; Zoologischer anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 190,000 volumes, and is at all times open to the students for consultation. Private subscription, for four volumes, \$12 a year, or \$10 for nine months.

The *Mercantile Library*, which contains about 182,000 volumes. Private subscription, \$2.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains about 40,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains about 140,000 volumes. The custodians of this library have always shown great courtesy in placing rare volumes at the disposal of the college.

Sanskrit and Comparative Philology.

The instruction in Sanskrit and comparative philology is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German.

GRADUATE COURSES.

Dr. Collitz offers in 1899-1900 and in 1900-01 the following graduate courses :

Lectures on Comparative Philology, and Philological Seminary.

Two hours a week throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit is also of great aid to the student. The lectures on comparative philology treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student is introduced to the latest theories and discoveries in Aryan phonetics, and is expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method is pursued during the investigation of the history of forms; and in the third part of the course the student begins the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Advanced Sanskrit.

One hour a week throughout the year.

In this course selections from the Rig-Veda are read.

Elementary Sanskrit.

Two hours a week throughout the year.

Greek.

The instruction in Greek is under the direction of Dr. Herbert Weir Smyth, Professor of Greek*; Dr. Wilmer Cave France, Associate in Classical Literature; Dr. Hollister Adelbert Hamilton, Lecturer in Greek; Dr. George A. Barton, Associate Professor of Biblical Literature and Semitic Languages, and Dr.

* Dr. Smyth has been granted leave of absence for the year 1899-1900 to accept the Professorship of Greek Language and Literature in the American School of Classical Studies, Athens.

Joseph Clark Hoppin, Associate in Classical Art and Archæology.

Exceptional facilities for the study of all departments of classical philology are offered by the large classical library owned by the College. The greater part of this library is formed by the famous collection of the late Professor Hermann Sauppe, of Göttingen, which was acquired in 1894. This has been supplemented by purchases made by the college library, so that the classical library now numbers some six thousand volumes, including complete sets of most of the important journals, and about seven thousand dissertations, programmes, and monographs.

GRADUATE COURSES.

The graduate courses in Greek are varied from year to year (Lyric Poets, Attic Tragedy, Historians, and Orators), in order that they may be pursued by a student for several successive years. Three of these courses are required of students that offer Greek as a major subject in the examination for the degree of Doctor of Philosophy; two are required when Greek is the only minor subject offered, and one when two minors are offered. The post-major courses are open to graduate students. A large part of the work expected from graduate students consists of courses of reading pursued under the direction of the department, and reports of work thus read are from time to time required of the students. The course in comparative philology conducted by Dr. Collitz is recommended to graduate students of Greek.

Dr. Smyth conducted in 1898-99 the following graduate seminary:

Attic Historians.

Four hours a week throughout the year

This course is based chiefly upon a study of Thucydides, whose entire writings are read during the year; but lectures are given on Herodotus and the Attic successors of Thucydides. The work falls into the following subdivisions:

1. Seminary.
2. Interpretation, by the instructor, of a portion of Thucydides, *Book ii.*
3. Lectures, by the instructor, on subjects connected with Greek historiography, such as the composition of Thucydides's History, the syntax and style of Thucydides, the history of early Attic prose, Greek historical inscriptions.

Dr. Smyth offers in 1900-01 the following graduate seminary:

Greek Syntax and Composition.

Two hours a week throughout the year.

The Greek Elegy.

Two hours a week throughout the year.

Dr. France offers in 1899–1900, 1900–01, and in 1902–03 the following graduate seminary:

Plato.

One hour a week throughout the year.

The work is mainly literary and critical. Lectures are given by the instructor; a detailed interpretation of a portion of Plato, and reports on topics set for discussion are given by the class.

Dr. France offers in 1901–02 the following graduate course:

Aristophanes.

One hour a week throughout the year.

There will be interpretations by the instructor and students of portions of the text. Lectures on attic comedy and metres will be given by the instructor; reports on topics connected with the plays will be expected from the class.

Dr. Hamilton offers in 1899–1900 the following graduate course:

Aristophanes.

Two hours a week throughout the year.

This course consists of lectures on the syntax, style, composition, and metres of Aristophanes's plays and on the history of Greek comedy; interpretations of selected portions of the plays are given by the instructor and students.

Dr. Hoppin offers in 1899–1900 the following graduate course:

Pausanias.

Three hours a week throughout the year.

Dr. Hoppin offers in 1900–01 the following graduate seminary.

Archæological Seminary.

See page 64.

POST-MAJOR COURSES.

Dr. Smyth gave in 1898–99, and offers in 1900–01 the following post-major courses, open to graduate students:

Æschylus, *Agamemnon*, *Choephoræ*, *Eumenides*.

Three hours a week during the first semester.

Theocritus.

Three hours a week during the second semester.

Dr. France offers in 1899–1900 and in 1902–03 the following post-major courses, open to graduate students:

Plato, *Republic*.

Two hours a week during the first semester.

Plato, *Phædrus* and *Gorgias*.

Two hours a week during the second semester.

The philosophy, style, and composition of the dialogues are studied. Parallel reading in English on the subjects under discussion is assigned; rapid reading is expected from the class. The notes of Jowett and Campbell's edition of the *Republic* (Clarendon Press) are used, and students are expected to provide themselves with an interleaved Teubner text of the *Republic*. In the second semester Thompson's editions of the *Phædrus* and the *Gorgias* are used.

Dr. France offers in 1900-01 the following post-major courses, open to graduate students:

Aristophanes, *Archanians, Clouds, Wasps.*

Two hours a week during the first semester.

Plato, *Phædrus.*

Two hours a week during the second semester.

Dr. France offers in 1901-02 the following post-major courses, open to graduate students.

Lucian.

Two hours a week during the first semester.

Sophocles, *Electra, Philoctetes*; Euripides, *Bacchæ.*

Two hours a week during the second semester.

Dr. Hamilton offers in 1899-1900 the following post-major courses :

Æschines, *Against Ctesiphon*, and Demosthenes, *De Corona.*

Three hours a week during the first semester.

Aristophanes, *The Birds.*

Two hours a week during the first semester.

Æschylus, *Seven against Thebes*; Sophocles, *Electra*; Euripides, *Bacchæ.*

Three hours a week during the second semester.

Thucydides, *Books vi and vii.*

Two hours a week during the second semester.

Dr. Hoppin offers in 1899-1900 and in 1900-01 the following post-major course, open to graduate students :

Pausanias.

Three hours a week throughout the year.

See page 65. In 1900-01 this course will be given two hours a week throughout the year.

Dr. Barton offers in 1899-1900 and in 1900-01 the following post-major course, open to graduate students :

New Testament Greek.

Two hours a week throughout the year.

See page 58.

Latin.

The instruction in Latin is under the direction of Dr. Gonzalez Lodge, Professor of Latin, and Dr. Robert Somerville Radford, Associate in Latin Literature.

GRADUATE COURSES.

Graduate work in Latin is conducted by Dr. Lodge according to the seminary method. One department of Latin literature or one Latin author is selected each year as a subject of study. All the best and most recent editions, together with a large number of special treatises, dissertations, etc., are collected in the seminary library, and graduate students are encouraged to make themselves thoroughly familiar with all the literature bearing upon the subject chosen. The courses vary from year to

year, so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for several successive years. Thus far the following courses have been arranged: Roman Satire, with special attention to Horace and Juvenal; Roman Drama, with special attention to Plautus and Terence; Roman Historiography, with special attention to Livy and Tacitus; Roman Epistolography, with special attention to Cicero and Pliny.

A course of lectures on Latin Grammar and Syntax is similarly arranged, so that in successive years are discussed: (1) the forms, (2) the syntax of the noun, (3) the syntax of the verb, (4) the syntax of the subordinate sentence.

Dr. Lodge conducted in 1898-99 the following graduate seminary:

Historiography.

Three hours a week throughout the year.

Latin Syntax, *The Verb*.

One hour a week throughout the year.

Dr. Lodge offers in 1899-1900 the following graduate seminary:

Roman Drama.

Three hours a week throughout the year.

For this course the student should have the following books: *Fragmenta Scænicorum Romanorum*, ed. Ribbeck, Leipzig, Teubner (Text), 1897, also complete editions of Plautus, Terence, and Seneca's plays. The following editions are recommended: Plautus, ed. Goetz and Schoell, Leipzig, Teubner (Text), 1893-96, or ed. Leo, Berlin, Weidmann, 1895-96 (the latter edition is the more expensive); Terence, ed. Dziatzko, Leipzig, Tauchnitz, 1884, or ed. Fleckeisen, 2nd edition, Leipzig, Teubner (Text), 1898; Seneca, *Tragædiæ*, ed. Leo, Berlin, Weidmann, 1878-79.

Latin Syntax, *The Subordinate Sentence*.

One hour a week throughout the year.

Dr. Lodge offers in 1900-01 the following graduate seminary:

Roman Epistolography.

Three hours a week throughout the year.

The course consists of historical and critical lectures by the instructor and of critical interpretation by the students of selected passages from the principal authors; abstracts and analyses of important dissertations and special treatises are presented by the students. Every student is expected to make during the year an original study of some subject connected with the work of the seminary.

For this course the students should have the following books: *Ciceronis Epistulæ*, ed. C. F. W. Mueller (being the third part of the Teubner text of Cicero), Leipzig, 1896-98; *Plini Epistulæ*, ed. Keil, Teubner (Text); editions of the *Epistulæ* of Horace, the *Heroides* of Ovid and the *Epistulæ Morales* of Seneca are also desirable.

Latin Grammar, *The Forms*.

One hour a week throughout the year.

Dr. Radford offers in 1900-01 the following graduate course:

Advanced Latin Prose Composition.

Two hours a week throughout the year.

POST-MAJOR COURSES.

Dr. Lodge gave in 1898-99, and offers in 1899-1900, the following post-major courses, open to graduate students:

Terence, *four plays*.

Two hours a week during the first semester.

Plautus, *four plays*.

Two hours a week during the second semester.

Dr. Radford offers in 1899-1900 the following post-major courses, open to graduate students :

Pliny, Martial, and Apuleius.	<i>Three hours a week during the first semester.</i>
Lucretius and Catullus.	<i>Three hours a week during the second semester.</i>
Martial and Apuleius.	<i>Two hours a week during the first semester.</i>
Lucretius and Cicero.	<i>Two hours a week during the second semester.</i>
Advanced Latin Prose Composition.	<i>Two hours a week throughout the year.</i>
Advanced Latin Prose Composition.	<i>Three hours a week throughout the year.</i>

Dr. Radford offers in 1900-01 the following post-major courses, open to graduate students :

Martial, Pliny, and Apuleius.	<i>Three hours a week during the first semester.</i>
Cicero, <i>Fourth Verrine</i> ; Cicero's Letters.	<i>Three hours a week during the second semester.</i>
Seneca, <i>Tragedies</i> ; Ovid, <i>Heroides</i> ; Lucan.	<i>Two hours a week during the first semester.</i>
Lucretius and Catullus.	<i>Two hours a week during the second semester.</i>
Advanced Latin Prose Composition.	<i>Two or three hours a week throughout the year.</i>

MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Mary Gwinn, Dr. Hermann Collitz, Dr. Joseph A. Fontaine, Dr. James Douglas Bruce, Dr. Louis Emil Menger, Dr. Fonger DeHaan, Dr. William Allan Neilson, Dr. Albert Haas, Dr. Albert Schinz, Miss Rose Chamberlin, Miss Helen Whitall Thomas, Miss Lucy Martin Donnelly, Miss Helen Strong Hoyt, Miss Edith Pettit, Miss Mary Delia Hopkins and Miss Agnes Frances Perkins.

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary Gwinn, Professor of English, Dr. James Douglas Bruce, Associate Professor of English Philology, Dr. William Allan Neilson,* Associate in English Literature, and Miss Helen Whitall Thomas, Miss Lucy Martin Donnelly, Miss Helen Strong Hoyt, Miss Edith Pettit, Miss Mary Delia Hopkins and Miss Agnes Frances Perkins, Readers in English. It includes two years of lectures on literature and language required of every candidate for the Bachelor's degree ; two years of advanced English, which presuppose as much information as is contained in

* Dr. James Waddell Tupper, Associate (elect) in English Literature, will succeed Dr. Neilson in 1900-01.

the required course, and may be elected in combination with the major course in any other language, or as a free elective ; and graduate courses in English literature, essay work, Anglo-Saxon, and Early and Middle English.

GRADUATE COURSES.

There are offered each year two distinct graduate courses in English, one in literature and one in language, and these courses are so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English major. No undergraduates are admitted.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least the equivalent of the essay work in the required English course.

The graduate instruction in English literature includes the direction of private reading and the assignment of topics for investigation.

Dr. Gwinn gave in 1898-99 and offers in 1900-01 the following graduate course :

Seventeenth Century Prose Writers.

Two hours a week throughout the year.

The authors studied may be varied from year to year. Those chosen for discussion are usually Bacon, Hooker, and Milton. The time required for reading in connection with the lectures makes this course the equivalent of three hours a week.

Dr. Gwinn offers in 1901-02 the following graduate course:

The later Seventeenth and Eighteenth Century Drama.

Two hours a week throughout the year.

Dr. Gwinn offers in 1899-1900 and in 1902-03 the following graduate course :

Eighteenth Century Prose Writers.

Two hours a week throughout the year.

The authors studied may be varied from year to year. Those chosen for discussion are usually Swift, Steele, Addison, and Bolingbroke. The time required for reading in connection with the lectures makes this course the equivalent of five hours a week.

Dr. Neilson offers in 1899-1900 the following graduate courses:

The Elizabethan and Jacobean Drama. *Two hours a week throughout the year.*

The history of the English drama exclusive of Shakespeare is traced from the earliest religious plays till the closing of the theatres. The work of the class consists of lectures, reports by students, and the reading and discussion of select plays. The time required for reading in connection with the lectures makes this course the equivalent of five hours a week

English and Scottish Popular Ballads. *Two hours a week during the first semester.*

This course is intended to serve both as an opportunity for the study of the traditional ballad as literature and as an introduction to Folk-lore and questions of origin and methods of transmission. The class work includes lectures, the reading and discussion of typical ballads, and reports on special topics.

Shakespeare.

Two hours a week during the second semester.

All the works of Shakespeare are read by the class, and short critical papers on selected plays are required. The lectures deal with the questions of the chronology and sources of the plays, and, more fully, with the development of Shakespeare as a dramatic artist.

Dr. Tupper offers in 1900-01 the following seminary in English Literature:

English Mystery and Miracle Plays. *Five hours a week throughout the year.*

The English mystery and miracle plays will be studied from their earliest beginnings on the continent to their final development in the moralities. The class will meet twice a week for an hour and a half for reports by the students and the reading and discussion of selected plays. The class will also meet one hour a week to give reports on articles appearing in English, French, and German scientific journals dealing with the subject.

Dr. Bruce offers in 1899-1900 and in 1900-01 the following graduate course:

Select Specimens of Middle English Literature.

Two hours a week throughout the year.

The course deals with the most important works of Middle English Literature not included in the seminaries in Middle English Romances and Chaucer.

Dr. Bruce offers in each year the following graduate course:

Anglo-Saxon.

Two hours a week throughout the year.

The course will be given as a course either for beginners or for more advanced students, according to the needs of the graduate students.

Dr. Bruce also offers each year an undergraduate course in Anglo-Saxon for beginners, two hours a week throughout the year, open to graduate students who wish to work more slowly.

Dr. Bruce conducts the seminary in English Philology, the work of which has been arranged as follows:

English Seminary, Middle English Romances.

Two hours a week throughout the year.

In 1899-1900 the subject is Middle English Romances. Special attention is paid to the romances of the Arthurian cycle. In the lectures a survey is given of recent investigations concerning the origin and development of this cycle. Select romances are studied with the class.

In the year 1900-01 the subject of the seminary will be Chaucer.

The Knight's Tale, and subsequent treatments of the same theme in English Literature, will be studied comparatively, and the problems concerning the relation of this work to the older *Palaman and Arcite* will be thoroughly discussed. The tales of the *Second Nun*, *Clerk*, *Man of Law*, and *Squire* will be taken up in a similar manner; also, *The House of Fame*, *The Legend of Good Women*, and the *Romaunt of the Rose*. The work of the seminary will consist of reports by individual students, the literature of each subject being assigned at the close of the preceding meeting by the professor presiding. An attempt will be made to secure an exhaustive examination of the literature of each successive subject, whether existing in English or in foreign books, articles, or dissertations. After the reading of reports, the members of the seminary will take part in an oral discussion of the matter presented.

In the year 1894-95 Selected Poems of the Exeter Book, were studied in the seminary. The minor epic pieces were first considered with reference to the Teutonic saga-cycles with which they are connected. The criticism of the text of each poem was carefully considered, and subsequently the *Crist* and *Guthlac* were taken up. In connection with these poems, special study was devoted to the syntax of Old English, and a series of lectures on this subject was given by the instructor. Practical exercises accompanied the lectures as in the case of the course on Phonology.

In the year 1895-96, and in 1896-97, the subject was the Middle English Romances. The work of the seminary dealt with the Middle English romance literature and differed somewhat from the seminary work in 1899-1900. The four great cycles of Arthur, Troy, Alexander, and Charlemagne were taken up in the order named. Introductory lectures on each cycle were given by the instructor with reference to its general European development. Representative Middle English romances of each cycle were assigned to the students for investigation. Select romances not belonging to the great cycles were also studied.

In the year 1897-98 and in 1898-99 the subject was *Beowulf*.

The following advanced undergraduate courses may be attended by graduate students :

Dr. Gwinn gave in 1898-99 and offers in 1900-01 the following course :

English Critics of the Nineteenth Century.

Three hours a week throughout the year.

The authors studied may be varied from year to year. The critics usually chosen are Matthew Arnold, Mr. Swinburne, and Walter Pater. Papers must be prepared by the students attending the course.

Dr. Gwinn offers in 1899-1900 and in 1901-02 the following course :

English Critics of Life ; Burke, Carlyle, and Ruskin.

Three hours a week throughout the year.

At least two long papers must be prepared by each of the students in this course. The authors are considered with special reference to Classicism and to Romanticism, and to the ideas of the French Revolution.

Dr. Neilson gave in 1898-99 the following course :

English Poetry from 1780 to 1832.

Two hours a week throughout the year.

In this course a study is made of the rise and development of the Romantic movement in English poetry, from its beginnings in the eighteenth century down to the death of Scott.

Dr. Neilson offers in 1899-1900 the following course :

English Poetry from 1832 to the present time.

Two hours a week throughout the year.

The poets are studied in their relation to the main currents of thought in the Victorian period.

Dr. Bruce offers in 1900-01 the following course :

Chaucer.

One hour a week throughout the year.

Besides a certain number of Canterbury Tales, other works of Chaucer are read critically with the class. Lectures on Chaucer's life, language, and poetical development accompany the reading.

Dr. Bruce offers in 1901-02 the following course :

Critical Reading of Shakespeare.

Two hours a week throughout the year.

This course consists of the critical reading of select plays with special reference to Elizabethan grammar and vocabulary.

Dr. Bruce offers in 1901-02 the following course :

Spenser.

One hour a week throughout the year.

Select portions of the *Færie Queene* will be read and discussed.

Miss Donnelly offers in 1899-1900, and Miss Helen W. Thomas offers in 1900-01, the following course in advanced essay writing :

Descriptive Writing.

Two hours a week throughout the year.

The purpose of this course is to teach students to observe and describe their emotions and impressions. Lectures on the style and methods of description of certain modern English and French writers are given, and selected passages from their writings are suggested as models. A special study is made of vocabulary, and of the structure and rhythm of sentences. Two papers must be written each week by the students attending the course.

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German, Dr. Albert Haas, Associate in German Literature, and Miss Rose Chamberlin, Reader in German.

GRADUATE COURSES.

The graduate courses offered in German Philology may be found under the head of General Teutonic Philology.

Graduate work in modern German Literature is conducted by Dr. Haas according to the seminary method. Beginning with the year 1900-01 the courses will be so varied that they may be followed by graduate students throughout three successive years and will cover the work required of students who offer German literature as a major for the degree of Doctor of Philosophy.

Dr. Haas offers the following graduate seminary:

German Literature.

Three hours a week throughout the year.

In 1899-1900 the subject of the seminary is modern German literature. The work consists chiefly of private reading pursued under the direction of the instructor; the students study the works of all the authors prominent in German literature since the time of Gottsched, Bodmer, and Breitinger. Standard treatises on literary criticism dealing with this period are read and reported on.

In 1900-01 the subject of the seminary will be the *Bürgerliche Drama* of Lessing, its origin in English and French literature, and its development in Modern German literature. The students will, as far as possible, be required to become familiar with the critical literature of the subject. Special attention will be paid to the study of dramatic style and technique.

In 1901-02 Goethe's *Faust*, Part I. and Part II. (the Helena portions), will be the subject of the seminary. The development of the original Faust legend and the puppet play, as well as of the Faust dramas or novels, will be studied, and an attempt will be made to become familiar with the most important Faust criticism.

In 1902-03 the period of Goethe's and Schiller's collaboration will be the subject of the seminary, and in this connection a critical study will be made of German romanticism and its development in German literature of the nineteenth century.

Although the seminary meets only three hours a week throughout the year, the amount of reading required makes the course equivalent to five hours a week. It is hoped that the students will become familiar with the methods of scientific criticism and investigation.

Dr. Haas offers in each year the following graduate course :

The Principles of Scientific Criticism of Literature.

One hour a week during the first semester.

This course consists of a general introduction to the study of the scientific criticism of literature. Although illustrations are taken from German literary criticism, the course is designed for the student of modern literature. The theories of important modern critics are thoroughly discussed and papers are written by the students. The principles of criticism laid down by the Schlegels, by Taine, Hennequin, M. Brunetière, M. Faguet, and leading English critics are considered. Finally, as an illustration of German Goethe-criticism, one act of Goethe's *Faust* and the various literary interpretations it has given rise to are discussed. The course is open only to those students that have a reading knowledge of French and German.

POST-MAJOR COURSES.

Dr. Haas offers in 1899-1900 and in 1900-01 the following post-major course, open to graduate students :

German Literature since the Franco-German War.

Two hours a week throughout the year.

In this course a critical exposition of contemporary German literature is given, and the foreign influences it has undergone are discussed. Selections from the works of Ibsen, Nietzsche, Sudermann, Hauptmann, and Fontane are read and criticised.

Miss Chamberlin offers in 1899-1900 and in 1900-01 the following post-major course, open to graduate students :

German Syntax, Advanced Reading, and Composition.

Two hours a week throughout the year.

Attention is given in this course to the needs of students wishing to make teaching their profession. Each student is required to lecture to the class at least once during the year.

GENERAL TEUTONIC PHILOLOGY.

The instruction in this department is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German.

Special attention is called to the facilities for the study of

comparative Teutonic philology offered by Bryn Mawr College. The German and the English departments together have provided for a complete course in Teutonic philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and general comparative philology. There is still much opportunity for original work in Teutonic philology; and it is hoped that students who have completed the full course will be able to take an active part in it.

The complete course is intended to cover three years of study. Gothic, Middle High German, and Introduction to the Study of Teutonic Philology are considered as first year courses; Old High German, advanced Middle High German, Old Norse and Old Saxon, Comparative Teutonic Grammar, and the Teutonic Seminary as second or third year courses. In connection with the above courses the study of Anglo-Saxon may be carried on for three years. The lectures will be varied from year to year, so as to cover within three years all the subjects mentioned. In addition to these courses others in Old Frisian, Dutch, Middle Low German, or Modern Low German may be arranged for advanced students.

Dr. Collitz offers the following graduate courses :

Gothic.

Two hours a week throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. Wright's *Primer of the Gothic Language* (Oxford, 1892); or Braune's *Gotische Grammatik* (4th ed., Halle, 1895) are used as text books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student of Teutonic grammar is advised to take this course as early as possible.

Middle High German Grammar and reading of Middle High German Texts (first year course).

Two hours a week throughout the year.

This course includes a brief abstract of Middle High German grammar, with special reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied*.

Students of Middle High German should be provided with Wright's *Middle High German Primer* (Oxford, 1888); and with Paul's *Mittelhochd. Grammatik* (4th ed., Halle, 1894).

This course is required of all students that make German the minor subject in their examination for the degree of Doctor of Philosophy.

The private reading includes the works of the authors treated in the course.

Introduction to the Study of Teutonic Philology.

One hour a week throughout the year.

These lectures deal with the following topics : a discussion of Teutonic in its relation to the cognate Aryan languages ; a brief sketch of the single Teutonic languages, accompanied by an account of the chief grammatical and lexicographic works on each ; a discussion of the

aim and method of historical and comparative grammar (including problems such as those of the relationship of dialects, of the consistency of phonetic laws, etc.); a brief history of Teutonic philology, and finally the outlines of general phonetics.

Old High German.

Two hours a week throughout the year.

This course is offered to students acquainted with Gothic and Middle High (or at least Modern) German, and includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Middle and Modern High German. Selections are read from Old High German texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the differences between the Old High German dialects.

Old Norse.

Two hours a week during the second semester.

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course attention is paid to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts read, selections from the younger and the older *Eddas* take a prominent place. The critical reading of songs from the elder *Edda* is supplemented by a discussion of the different views on the structure of the Old Germanic alliterative verse.

The books used are Sweet's *Icelandic Primer* (Oxford, 1886), or Holthausen's *Altisländisches Elementarbuch* (Weimar, 1895), and Hildebrand's *Edda* (Paderborn, 1876), with Gering's *Glossar* (2nd Edition, Paderborn, 1896).

Attention is called to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, was acquired by Bryn Mawr College, and hence the library is probably as well supplied as any other college library in the United States with Old Norse texts, Norse periodicals, and works on Old Norse language and literature.

Old Saxon.

Two hours a week during the second semester.

This course may, by request, be substituted for the course in Old Norse.

The work presupposes on the part of the students a sufficient knowledge of Gothic, Anglo-Saxon, and Old High German. Gallée's *Altsächsische Grammatik* (Halle, 1891); the *Heliand* (in Sievers's or Heyne's or Behaghel's edition), and Zangemeister-Braune's *Bruchstücke der altsächsischen Bibeldichtung* (Heidelberg, 1894), are used.

Middle High German (second year course).

One hour a week throughout the year.

This course is intended for students that have followed the first year's course in Middle High German. The first semester is devoted to the *Höfisches Epos* (Veldeke, Wolfram, Gottfried von Strassburg, Rudolf von Ems, Conrad von Würzburg), and the second semester to Minnesangs Frühling and Walther von der Vogelweide.

Teutonic Seminary.

One hour a week throughout the year.

This seminary is arranged for the benefit of the most advanced students in Teutonic philology. Its object is to encourage independent work on the part of the students. The exercises consist mainly of the discussion of special topics by the instructor and the students. The subjects for discussion are announced in advance, and the members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

Comparative Teutonic Grammar (First Part).

One hour a week throughout the year.

The study of comparative Teutonic philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the

single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic language; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages.

ROMANCE LANGUAGES.

French.

The instruction in Romance Languages is under the direction of Dr. Joseph A. Fontaine,* Professor of Romance Languages, Dr. Louis Emil Menger, Professor of Romance Philology, Dr. Fonger DeHaan, Associate Professor of Spanish, Dr. Albert Schinz, Associate in French, and Miss Rose Chamberlin, Reader in German.

GRADUATE COURSES.

There are offered each year two distinct graduate courses in French, one in literature and one in language, and these courses are so varied that they may be followed by the graduate student throughout three years.

The graduate work in literature is directed towards a special treatment of some such subjects as the development of the early French drama; French tragedy in the eighteenth century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French literature two hours a week throughout the two years of the major course in French.

Dr. Fontaine offered in 1898-99 the following graduate courses:

Modern French Comedy.

One hour a week throughout the year.

This course begins with a short sketch of the Romantic drama, then proceeds to a study of the works of Augier, Dumas fils, Sardou, Sandeau, Pailleron, Labiche, including five or six comedies by the best contemporary French dramatists.

Modern French Novel.

Two hours a week throughout the year.

This course is prefaced by a short survey of the French novel in the seventeenth and eighteenth centuries, then deals mainly with the works of Madame de Staël, Chateaubriand, Stendhal, Mérimée, Balzac and his followers.

Composition and Essay Work in French.

One hour a week throughout the year.

This course is especially intended for students preparing to teach French, but is open to any students who are fully prepared for it.

Dr. Fontaine offers in 1900-01 the following graduate course :

Romantic French Drama.

Four hours a week throughout the year.

This course presupposes an acquaintance with the classical comedy and tragedy of the seventeenth century, and includes a general survey of the drama in the eighteenth century. The dramatic works of Ludovic Vitet, Alfred de Vigny, Victor Hugo, Alexandre Dumas, and Alfred de Musset serve as a basis to this course.

* Dr. Fontaine has been granted leave of absence for the year 1899-1900.

Dr. Schinz offers in 1899-1900 the following graduate course:

Parnassians and Symbolists.

One hour a week during the second semester.

Dr. Schinz offers in 1900-1901 the following graduate course:

Rousseau.

One hour a week throughout the year.

Dr. Menger offers in 1899-1900 and in 1900-01 the following graduate courses :

The courses in Old French Philology, Old French Readings, and French Physiological Phonetics are intended for students in their first year of graduate study; the Old French Seminary is designed for students in their second or third year of graduate study; the Journal Club may be attended by students in their first, second, or third year of graduate study.

Old French Philology.

Two hours a week throughout the year.

This course consists of lectures on the phonology and morphology of Old French. An attempt is made to present the laws that govern the transition of words from popular Latin into Old French; incidentally their later development into modern French is treated. An extra hour is taken occasionally for a review of the lectures and for an application of the principles announced to the words of the Old French texts. The student needs for constant reference Schwan's *Grammatik des Altfranzösischen* and Suchier's *Le Français et Provençal*.

Old French Readings.

One hour a week throughout the year.

In this course the students are expected to read as much Old French as possible in order to become acquainted with forms and idioms of different dialects and of different stages of the language. The following texts are used: Monaci, *I più antichi monumenti della lingua francese*; *Chanson de Roland*, (Ed. Müller); *Vie de St. Alexis* (Ed. Paris, Vieweg, 1885); *Aucassin et Nicolette* (3rd Ed. Suchier); *Cligès* (Ed. Foerster). In addition to the above, a certain amount of private reading is required.

French Physiological Phonetics.

One hour a week during the first semester.

The object of this course is two-fold: in the first place it is intended to give a view of the physiological basis of the speech changes treated of in historical phonetics (Old French Philology course); and in the second place to introduce the student to the new method of teaching French pronunciation to beginners by means of a phonetic system (as illustrated in the Manuals of Passy and Beyer, Cledat, and Grandgent). The text-books used are Passy, *Les Sons du Français*; Beyer, *Französische Phonetik*; Sweet, *Primer of Phonetics*.

Old French Seminary.

Two hours a week throughout the year.

The work of the seminary deals with the most important Old French dialects, beginning with the Anglo-Norman, continuing with the Norman, then with the Northern and Eastern Groups. As an introduction to the course, a study is made of the discussion of dialect boundaries in France, and of the essential differences of speech development in Northern French as a whole, as compared with Provençal and Franco-Provençal. Texts in the various dialects are handled by the student until she is able to determine the origin of any piece of Old French literature by means of the speech peculiarities found in it.

Journal Club.

Once a fortnight throughout the year.

The journal club is intended to make the advanced students familiar with all the important European periodicals dealing with Romance Philology. For each session of the club an important article chosen from some one of the various periodicals is assigned to a student for review. The student is also referred to previous articles or publications treating of the same subject as that of the review, and is expected to present to the club a chronological outline of the history and stages of the discussion on the given point. Thus the students become familiar with the names of leading Romance scholars and with the particular lines of research in which each of the latter excels. At the same time such reviews prepare the way for seminary work and for original investigations.

POST-MAJOR COURSES.

In 1897-98 Dr. Fontaine gave the following post-major course :

Modern French Comedy.

Two hours a week throughout the year.

Selected comedies from Augier, Dumas, Sandeau, and others.

Dr. Fontaine offered in 1898-99 and offers in 1900-01 the following post-major course:

Modern French Poetry.

Three hours a week throughout the year.

The Symbolic and Neo-Catholic Schools. Selections from Stéphane Mallarmé, Henri de Régnier, Paul Adam, and others.

Dr. Schinz offers in 1899-1900 and in 1900-01 the following post-major course :

French Lyric Poetry.

Two hours a week during the first semester.

French lyric poetry is studied from the fall of Romanticism till the present day. Essays are written by the students and the instruction is given partly by lectures, partly by the seminary method.

Italian.

The instruction in Italian is under the direction of Dr. Louis Emil Menger, Professor of Romance Philology.

GRADUATE COURSE.

Dr. Menger offers in 1899-1900 and in 1900-01 the following graduate courses:

Italian Philology.

One hour a week throughout the year.

This course in 1899-1900 is a continuation of the course on the same subject begun in 1897-98. The main work is on the forms of old Italian speech, the phonology having been treated in 1897-98.

Origins of Italian Literature.

One hour a week throughout the year.

The lectures are intended to give an outline of the development of Italian poetry previous to Dante and of the prose previous to Boccaccio. Special attention is paid to bibliography. The lectures are delivered in Italian.

Dr. Menger offers in 1899-1900 and in 1900-01 the following undergraduate courses, open to graduate students :

FIRST YEAR.

Modern Italian.

Three hours a week throughout the year.

This course is designed to prepare beginners for the study of Italian literature, as well as for the practical use of the language. Reading is taken up from the first, a careful pronunciation is insisted upon, and the essentials of the grammar are taught by a critical observation of the texts used and by graded exercises in the rendering of English into Italian. The books read are the following (taken up in the order indicated): Grandgent, *Italian Grammar and Composition*; Bowen, *Italian Reader* (Boston, Heath, 1897); De Amicis, *Cuore* (Ed. Kuhns, New York, Holt, 1896); Del Testa, *L'Ore e l'Orpello* (Ed. Thurber, Boston, Heath, 1895); Farina, *Fra le Corde d'un Contrabbasso*; Fogazzaro, *Il Mistero del poeta*; Colombi, *Il Tramonto di un Ideale*; Verga, *Vita dei Campi*.

SECOND YEAR.

Italian Classical Literature.

Three hours a week throughout the year.

The work in this course is threefold: first, a brief outline of the main periods of Italian literature with special attention to the period of the origins and Dante's position in the literature; secondly, the translation of the whole of the *Inferno* and selected parts of the *Purgatorio* and *Paradiso*, with critical attention to the historical, philological and literary points in connection with the same; thirdly, the study and translation of parts of Pulci, *Morgante Maggiore*; Bojardo, *Orlando Innamorato*; Ariosto, *Orlando Furioso*, and Tasso, *Gerusalemme Liberata*.

Spanish.

The instruction in Spanish is under the direction of Dr. Fonger DeHaan, Associate Professor of Spanish.

GRADUATE COURSES.

Dr. DeHaan offers in 1899-1900 and in 1900-01 the following graduate courses:

Lectures in Spanish on Spanish Literary History till the death of Calderon (1681).

One hour a week throughout the year.

The lectures are supplemented by extensive private reading of important works.

Essays in Spanish.

Two hours a week throughout the year.

Spanish Philology.

One hour a week throughout the year.

Old Spanish Readings.

One hour a week throughout the year.

POST-MAJOR COURSES.

Courses in composition and conversation are offered to those students who have completed the major course; they may also be taken by graduate students.

Dr. DeHaan offers in 1899-1900 and in 1900-01 the following undergraduate courses, open to graduate students:

FIRST YEAR.

Spanish.

Four hours a week throughout the year.

The object of this course is to give beginners a good knowledge of modern Spanish, and to ground them thoroughly in the essentials of the grammar. As a preparation for understanding the spoken language, two half-hours a week during the second semester are devoted to dictation. The books studied are the following (taken up in the order indicated): Eagen's, *Brief Spanish Grammar* (Boston, Heath); García del Real, *La noche toledana* (Barcelona, Tasso); DeHaan's *Cuentos Modernos*; Pérez Nieva, *Tomás el torrero* (Madrid, Colección Klong); Hartzenbusch, *Los Amantes de Teruel* (Obras, vol. III.); Zorrilla, *Granada* (Madrid, 1895, 2 vols.).

Private Reading: Palacio Valdés, *José*; Galdós, *Marianela*.

SECOND YEAR.

Lectures in Spanish on Spanish Literary History of the Nineteenth Century.

Two hours a week throughout the year.

Spanish Composition.

One hour a week throughout the year.

Private Reading: Private reading supplementing the lectures on literary history comprises representative works in the various branches of literature.

CELTIC AND SLAVONIC LANGUAGES.

Dr. Hermann Collitz, Professor of Comparative Philology and German, will offer courses in Celtic and Slavonic languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

SEMITIC LANGUAGES AND BIBLICAL LITERATURE.

The instruction in Semitic languages is under the direction of Dr. George A. Barton, Associate Professor of Biblical Literature and Semitic Languages.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is especially rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the college and those easily accessible in neighboring libraries, form a good equipment for the specialist in Semitic languages or Biblical literature.

GRADUATE COURSES.

The graduate courses in Semitic languages are varied from year to year, as indicated below, so that they may be pursued by a student for four successive years. As students of Semitic languages, in addition to the work of investigation, must master the elements of a number of dialects for use in Semitic philology, those who offer Semitic languages as the major subject in the examination for the degree of Doctor of Philosophy are required to spend in Semitic work half their time for at least three years.

The work of the department is so arranged that students may specialise in Hebrew or Assyrian. They must offer as subjects in the examination Hebrew, Assyrian, and Arabic, and must possess a knowledge of the grammatical forms of Aramaic and Ethiopic. Students that offer Semitic

languages as a minor subject in the examination for the degree of Doctor of Philosophy must show that they have a knowledge of three Semitic languages.

The regular alternation of courses is indicated below. There will be afforded each year an opportunity for graduate students to begin Hebrew, even if such a course should not be announced for the year in question.

Dr. Barton offered in 1898-99 the following graduate courses in Semitic Languages:

FIRST YEAR.

Elementary Hebrew.

Four hours a week during the first semester.

This course comprises a thorough study of the elements of the language, and the interpretation of parts of Genesis and Deuteronomy. It enables students to read ordinary Hebrew at sight.

Hebrew.

One hour a week during the second semester.

In this course one of the historical books is studied.

Elementary Assyrian.

Three hours a week during the second semester.

This course includes a study of the elements of the language, the interpretation of selections from the royal annals, and exercises in writing Assyrian.

Dr. Barton offers in 1899-1900 the following graduate courses in Semitic languages:

SECOND YEAR.

Hebrew, The Prophets.

Two hours a week throughout the year.

The text of one or more of the Prophets is critically interpreted, and Hebrew syntax and composition are studied.

Assyrian, Historical Texts.

Two hours a week throughout the year.

This course is devoted to the interpretation of royal annals, both Assyrian and Babylonian.

Elementary Arabic.

Two hours a week throughout the year.

The course consists of a study of the elements of the language, the interpretation of selections from Brünnow's *Chrestomathia* and from the *Thousand and One Nights*, together with Arabic prose composition.

Dr. Barton offers in 1900-01 the following graduate courses in Semitic languages:

THIRD YEAR.

Semitic Seminary.

Two hours a week throughout the year.

For students that specialise in Hebrew the work of the seminary consists of a critical study of one of the following subjects: the Psalter, Job, Canticles, Ecclesiastes, one of the historical or prophetic books; for those who specialise in Assyrian a critical study is made of one of the following subjects: Assyrio-Babylonian epic and mythological poetry, Assyrio-Babylonian religious and magical texts, Babylonian contracts, or the El-Amarna Tablets.

Assyrian Literature.

Two hours a week during the first semester.

Assyrio-Babylonian literature, history, and art are briefly reviewed.

Arabic Literature.

Two hours a week during the second semester.

Arabic civilisation and its chief literary products are studied.

Advanced Arabic.

Two hours a week throughout the year.

In the first semester portions of the Qur'an are read and in the second semester portions of the Mu'allakât poems are interpreted, and special attention is given to syntax. The grammars of Socin and Wright are used.

Dr. Barton offers in 1901-02 the following graduate courses in Semitic languages:

FOURTH YEAR.

Semitic Seminary.

Two hours a week throughout the year.

This course is continued from the previous year.

Aramaic, including Syriac and Biblical Aramaic.

Two hours a week throughout the year.

The first semester is devoted to Syriac. After the forms are learned, which is an easy matter for students acquainted with Hebrew, selections are read from the Syriac versions of the New Testament, from the chronicles of Barhebräus, and from the hymns of Efrem. The second semester is devoted to Jewish Aramaic, which is the dialect of large parts of the books of Daniel and Ezra, as well as of the Targums.

Ethiopic.

Two hours a week during the first semester.

The grammar and *Chrestomathia* of Dillmann are used, and in the latter part of the course selections are read from the book of Enoch.

Hebrew Epigraphy (Phœnician).

Two hours a week during the second semester.

As the grammatical forms of Phœnician differ slightly from those of Hebrew, this course is practically a course in Hebrew epigraphy. The inscriptions in Schröder's *Phönizische Sprache*, selections from the *Corpus Inscriptionum Semiticorum*, and from Lizdbarski's *Nordsemitische Epigraphik*, are interpreted.

The graduate courses in Biblical Literature are varied from semester to semester as indicated below, so as to form, with the courses in the Greek Testament and Historical Theology, a course of six hours a week running through two years. The course in New Testament Greek or one of the free elective courses mentioned below may be given instead of one of these courses.

The subjects treated are : the Old Testament Prophets, the Pentateuch, Old Testament Historical Writings, Old Testament Poetry and Wisdom, the New Testament Epistles, the Gospels and Acts of the Apostles, Jewish and Christian Apocalypses (especially Daniel and the Apocalypse of John), the Formation of the Biblical Canon, the Bible and the Monuments, and the Bible and the Koran. These courses afford students an opportunity to become familiar with the origin, date, form, literary features, contents and environment of the different books, the manner in which they were separated from other literature, the light which recent discovery throws upon the Bible narrative, and the superiority of the Bible to the Koran. A considerable part of the work consists of courses of reading under the direction of the department, on which reports are required from time to time.

Dr. Barton offers in 1900-01 the following graduate courses in Biblical literature:

FIRST YEAR.

The Prophetic Literature.

Two hours a week during the first semester.

In this course the life, times, and writings of the prophets are studied with as much thoroughness as is possible in English.

The Pentateuch.

Two hours a week during the second semester.

The history of the criticism of the Pentateuch is examined, and the laws and narrative of the Pentateuch are carefully studied.

The New Testament Epistles.

Two hours a week during the first semester.

A critical study of the epistolary literature of the New Testament is made.

The New Testament Historical Books.

Two hours a week during the second semester.

The Gospels and the Acts of the Apostles are critically studied.

Historical Theology.

Two hours a week throughout the year.

In the first semester the fundamental conceptions of the Semites as to gods and men, sin, sacrifice, and atonement are studied; in the second semester the religion of Israel is compared with the Semitic religion, and the preparation for Christianity is traced.

Dr. Barton offers in 1899-1900, and in 1901-02 the following graduate courses in Biblical literature:

SECOND YEAR.

Old Testament Historical Books.

Two hours a week during the first semester.

A critical study is made of the Hebrew methods of writing history as illustrated in the books of Judges, Samuel, Kings, Chronicles, Ezra, and Nehemiah. The history of Israel for the period covered by these books is reviewed.

Old Testament Poetry and Wisdom.

Two hours a week during the second semester.

The general principles of Hebrew poetry are first examined; then the early lyric poems scattered through the historical books of the Bible are interpreted. The book of Job, and selections from the Psalter are carefully studied and compared with other Semitic poetry. A knowledge of Hebrew is not required in this course.

Biblical Archæology.

Two hours a week during the first semester.

A study is made of the archæological discoveries in Palestine, Egypt, Assyria, and Babylon in relation to their bearing on Biblical history and criticism, and the domestic and social institutions of the ancient Hebrews are studied.

Jewish and Christian Apocalypses. *Two hours a week during the second semester.*

The course is chiefly devoted to Daniel and Revelation, but other apocalypses such as those of Enoch, Baruch, and IV. Esdras are also studied.

Historical Theology.

Two hours a week throughout the year.

This course is a continuation of that given in the previous year. In the first semester Christianity is studied as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A. D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon. In so far as is possible the original sources of information for religious conceptions are studied, and courses of reading embracing the best modern literature on the topic in hand are pursued by the students under the guidance of the instructor.

ELECTIVE COURSES.

Dr. Barton will offer, if time permits, the following free elective courses, open to graduate and undergraduate students:

New Testament Greek.

Two hours a week throughout the year.

This course presupposes a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour a week during the first semester is devoted to lectures on the history of the New Testament text, both in its written and in its printed form, the helps extant for emending it, and the method of using them. The remainder of the time is devoted to the interpretation of the New Testament Epistles, especially those of Paul. The students are expected to read privately during the first semester the text of one of the Gospels, and during the second, either the *Acts of the Apostles*, the *Apocalypse*, or the *Epistle to the Hebrews*.

The Formation of the Biblical Canon.

Two hours a week during the first semester.

The growth of the canons of the Old and New Testaments is traced.

The Bible and the Koran.

Two hours a week during the second semester.

The Koran is studied and a comparison with the Bible is made.

HISTORY.

The instruction in history is under the direction of Dr. Charles McLean Andrews, Professor of History.

GRADUATE COURSES.

Six courses are offered to graduate students in history in addition to direction in private reading and original research. In each year three or four hours of lectures are given.

Dr. Andrews offers in 1899-1900 the following graduate courses:

Historical Method and Criticism.

Two hours a week throughout the year.

The lectures in this course treat of the great collections of material in Germany, France, Italy, England, and America, and the methods employed in treating such material; historical criticism from the Renaissance to the present time, including the different kinds of evidence and their treatment, critical analysis, aids to evidence, geography, archæology, etc.

Economic History of the American Colonies.

One hour a week throughout the year.

This course, which was offered for the first time in the year 1898-99, presents in detail the various features of the agrarian and economic history of the British colonies in North America from the time of their settlement to the year 1760. It is conducted partly by lectures and partly by practical class exercises, and treats of England's commercial and colonial policy and its application in America; the land-system of the colonies; colonial agriculture, commerce, illegal trading, manufactures, and the like.

History of Roman Law.

One hour a week throughout the year.

Dr. Andrews offers in 1900-01 the following graduate courses:

English Feudalism.

Two hours a week throughout the year.

This course consists of Anglo-Saxon, Norman, and post-Norman feudalism to the close of the reign of Edward I, with a series of prefatory lectures upon the origin and character of Continental feudalism as presented in the writings of Brunner, Schröder, Fustel de Coulanges, Flach, and others.

English Local Institutions during the Feudal Period.

One hour a week throughout the year.

This course is a detailed study of the vill, manor, borough, gild, and of the hundred and county courts in England from the eleventh to the thirteenth centuries. For this course a course in the History of the Community in England and America may be substituted.

Dr. Andrews conducts in each year the Historical Seminary:

Historical Seminary.

Two hours once a fortnight throughout the year.

The work of the seminary is devoted chiefly to the constitutional economic history of England and America, and is planned to supplement the courses on the Community, English Feudal Institutions, and the Economic History of the Colonies. Only students taking these courses are admitted to the seminary. At the meetings, which are held once a fortnight, reports are made upon assigned topics, recent articles and books are reviewed, and the results of special investigations presented.

POST-MAJOR COURSES.

Dr. Andrews gave in 1898-99 and offers in 1900-01 the following post-major course, open to graduate students:

English Constitutional History.

Three hours a week throughout the year.

The text-books used in this course are Stubbs's *Select Charters*, Prothero's *Constitutional Documents*, and Gardiner's *Select Documents of the Puritan Revolution*. The lectures alternate with the reading and interpretation of selected charters and constitutional documents. Each student is assigned from time to time topics upon which a report is made to the class.

Dr. Andrews offers in 1899-1900 and in 1901-02 the following post-major course, open to graduate students:

American Constitutional History.

Two hours a week throughout the year.

The only text-books used in this course are Macdonald's *Select Charters* and *Select Documents of American and United States History*. The members of the class are also systematically referred not only to the general authorities, but also to colonial charters and constitutions, to the records of the colonial governments as far as they are available, to the journals of Congress, the constitutions of the separate states and of the United States, to State papers, Congressional documents, and other similar accessible material. The method of work is the same as that employed in the course in English Constitutional History. The lectures close with the period of reconstruction.

POLITICAL SCIENCE.

The instruction in political science is under the direction of Dr Lindley Miller Keasbey, Professor of Political Science.

GRADUATE COURSES.

Dr. Keasbey offers in 1899-1900 and in 1900-01 the following graduate courses :

Economic Institutions.

One hour a week throughout the year.

The lectures in this course serve as a general guide to the detailed work of investigation assigned to each student.

American Primitive Society.

One hour a week throughout the year.

In this course a critical study is made of the geographic basis of aboriginal American society. The lectures are both descriptive and theoretical, and, in addition, detailed work of investigation is assigned to each student.

American Commerce.

One hour a week throughout the year.

On the basis of an exact knowledge of the resources of the American continent and a general knowledge of those of other countries, the student is expected in this course to study the past, analyse the present, and form conclusions as to the probable future of American trade and commerce. The lectures cover the entire ground, and the student is expected to do detailed work of investigation in government documents.

POST-MAJOR COURSES.

Dr. Keasbey offers in 1899-1900 and in 1900-01 the following post-major courses, open to graduate students:

Descriptive Sociology.

Three hours a week throughout the year.

The lectures deal with the economic antecedents of society and trace the progress of industrial civilisation. The students are expected to present special written work on the basis of private reading assigned.

Theoretical Sociology.

Two hours a week throughout the year.

In this course the various theories of the origin and evolution of human institutions are set forth in the order of their historical expression, and an attempt is made to present an hypothesis that will account for the various phenomena of social growth. A large amount of collateral reading is assigned to each student, but no written work is required.

Philosophy.

The instruction in philosophy is under the direction of *Dr. Charles Montague Bakewell, Associate Professor of Philosophy, Dr. David Irons, Associate (elect) in Philosophy, and Dr. James H. Leuba, Associate in Psychology and Education.

GRADUATE COURSES.

The graduate work consists of seminary work and lecture courses. The post-major work may also be elected by graduates. In 1899-1900 the graduate work in metaphysics is conducted by Dr. Bakewell.

Dr. Irons will conduct the following graduate seminary:

Metaphysical seminary.

Three hours a week throughout the year.

The subject for the year 1900-01 will be the metaphysics of Schopenhauer and E. von Hartmann. In 1901-02 the subject will be the problems of logic and epistemology (the works of Bradley, Bosanquet, Sigwart, and Hobhouse being used as a basis). The subject for the succeeding year will be Hegel's *Logic*. This arrangement may be modified to suit the requirements of the students concerned.

* Dr. Bakewell will be succeeded by Dr. Irons in the year 1900-01.

Dr. Irons offers in 1900-01 the following graduate course :

Recent German Philosophy.

One hour a week throughout the year.

This course will be given in 1900-01 as a supplement to the seminary work on Schopenhauer and Hartmann. The lectures will give an account of the development of German philosophy from the death of Hegel to the present time.

Dr. Irons offers in 1901-02 the following graduate course:

History of Ethics.

Two hours a week throughout the year.

The aim of this lecture course is to present a systematic account of the development of ethical thought in ancient and modern times. Special attention will be directed to English ethics of the 18th century. Students will be expected to do prescribed reading, and time will be allowed for discussions.

Dr. Irons offers in 1902-03 the following graduate course:

Plato and Aristotle.

Two hours a week throughout the year.

This lecture course will be given in the year 1902-03 as a supplement to the seminary work in Hegel's *Logic*.

Dr. Leuba offers each year graduate work in psychology, three hours a week throughout the year, the courses being adjusted as far as possible to the needs of the students. The work is conducted mainly according to the seminary method. One or two of the following subjects will be chosen each year: the fundamental principles and most important results of modern psychology; a comparative study of Wundt, William James, James Ward, Stout, and other psychologists; *volkpsychologie*; language, myths, customs; attention, apperception, the will, and the psychology of ethics; psychiatry, insanity, and criminology; animal and child psychology, comparative psychology; the history of psychological theories, beginning with the greek philosophers.

The laboratory is open to graduate students for research work. There is also a weekly conference or seminary to hear reports on the literature of the subject and on the work done in the laboratory.

POST-MAJOR COURSES.

Dr. Bakewell offers in 1899-1900 the following post-major course, open to graduate students:

Recent English Philosophy.

One hour a week throughout the year.

Dr. Bakewell offers in 1899-1900 one of the following post-major courses, open to graduate students:

Greek Philosophy.

Two hours a week throughout the year.

This course is designed to give a general and comprehensive knowledge of Greek philosophy, and also to serve as a preparation for minute seminary investigation of special problems connected with the philosophies of Plato and Aristotle. The class work consists mainly of lectures, but each student is expected to do a large amount of collateral reading, comprising (at least in translations) all the fragments of the early Greek philosophers, selected portions of Xenophon's *Memorabilia*, about one-half of Plato's *Dialogues*, and parts of the *Ethics*, *Psychology*, and *Metaphysics* of Aristotle. While a reading knowledge of Greek is highly desirable for students who elect this course, and indispensable for all students who expect to pursue further their studies in Greek philosophy, it will not, for the present, be regarded as a necessary prerequisite.

Mediæval Philosophy.

Two hours a week throughout the year.

This course, beginning with a consideration of the sources of the mediæval *Weltanschauung*, traces its gradual growth and formulation in Scholastic Philosophy with special reference to the systems of Thomas Aquinas and Duns Scotus. This course is open only to students having a reading knowledge of Latin. A knowledge of French, German, and Greek is desirable but not indispensable.

Early Modern Philosophy.

Two hours a week throughout the year.

This course of lectures deals mainly with the continental philosophers, beginning with Descartes and ending with Leibnitz.

Dr. Irons offers in 1900-01 one of the following post-major courses open to graduate students:

Greek Philosophy.

Two hours a week throughout the year.

This course is designed to give a general and comprehensive knowledge of Greek philosophy, and also to serve as a preparation for seminary investigation of special problems connected with the philosophies of Plato and Aristotle. The class work consists mainly of lectures, but students are expected to do a large amount of collateral reading, comprising (at least in translations) all the fragments of the early Greek philosophers, selected portions of Xenophon's *Memorabilia*, about one-half of Plato's *Dialogues*, and parts of the *Ethics*, *Psychology*, and *Metaphysics* of Aristotle. (For this course the following will be substituted by request.)

Empiricism and Rationalism.

Two hours a week throughout the year.

This course is intended to serve as an introduction to graduate work in German idealism. The first semester will be devoted to English empiricism, and in this connection Locke's *Essay* and Hume's *Treatise* will be dealt with in detail. In the second semester the development of rationalism will be traced in the systems of Descartes, Spinoza, and Leibnitz.

Dr. Leuba offers in 1899-1900, and 1900-01 the following post-major course, open to graduate students:

Psychology.

One hour a week throughout the year.

In the first semester a detailed study of the psychology of the higher psychic processes, more especially of the feelings, the emotions, and the instincts considered in their relation to action, is made. One and a half hours of laboratory work a week is required from all students taking the course.

Laboratory work, consisting of the working out of original problems, may be taken as a free elective by students following the course in psychology; it may count as two or three hours' work, according to the time spent in the laboratory.

Education.

This department is under the direction of Dr. James H. Leuba, Associate in Psychology and Education.

It is the purpose of the department to offer to students intending to become teachers an opportunity to obtain a technical preparation sufficient for their profession. Hitherto practical training has been thought necessary for teachers of primary schools only, but it may be expected that in the near future a similar training will be required of teachers in high schools and colleges also; it is already becoming increasingly difficult for college graduates without prac-

tical and theoretical pedagogical knowledge to secure such positions. In addition to the lectures and practice work open to undergraduates, courses will be organised for graduate students only, conducted with special reference to preparation for the headship and superintendence of schools. Education cannot be studied to the best advantage unless an acquaintance with at least the rudiments of psychology is presupposed. The elementary experimental course in psychology is therefore recommended to all students of education.

GRADUATE COURSES.

Graduate students are recommended to follow the work offered in the undergraduate courses mentioned below.

Dr. Leuba offers in 1899-1900 and in 1900-01 the following graduate courses :

Lectures on the Theory of Teaching (school-hygiene, physical training, organisation of education in the United States and in Europe, the training of teachers, etc.). *Two hours a week throughout the year.*

Seminary and Practical Exercises. *One hour a week throughout the year.*

The students will be given an opportunity to teach and to attend the classes of competent teachers. The seminary meets weekly for the consideration of pedagogical literature and criticism of the teaching done by its members.

ELECTIVE COURSES.

Dr. Leuba offers in 1899-1900 and in 1900-01 the following elective course open to graduate students :

The great Educators and their Systems considered with reference to modern educational methods and the problems of to-day.

Two hours a week throughout the year.

Dr. Leuba offers in 1900-01 the following elective courses open to graduate students:

Education. *Two hours a week throughout the year.*

This course consists in the first semester of a review of what is known with regard to mental and physiological growth and its conditions in so far as they bear upon pedagogy. A knowledge of elementary psychology but no knowledge of pedagogy is assumed. In the second semester the principles of pedagogy and methods of teaching are considered with reference to the work of the first semester.

Law.

The instruction in Law is under the direction of Dr. Clarence D. Ashley, Non-resident Lecturer in Law; Dean of the Faculty of Law of New York University.

GRADUATE COURSE.

Dr. Ashley offers in 1900-01 the following graduate course:

Constitutional Law.

One hour a week throughout the year.

ELECTIVE COURSE.

Dr. Ashley offers in 1900-01 the following elective course open to graduate students :

Law of Contract.

Two hours a week throughout the year.

This course, offered for the first time in 1899-1900, one hour a week, treats only of the formation of contract as embraced in the topics of Mutual Assent and Consideration. It is conducted by class discussion of cases contained in a collection of selected and condensed cases.

A statement of each case, with a critical examination and full discussion of the principles involved, is required. The aim is to train the class in accurate legal thought, and incidentally to impart a thorough knowledge of the principles underlying the subjects covered.

For collateral reading reference is made to Langdell's *Summary of Contract* and the treatise of Pollock and Anson.

Art and Archæology.

The instruction in this department is under the direction of Dr. Joseph Clark Hoppin, Associate in Classical Art and Archæology.

Beginning with the year 1900-01 a definite scheme of archæological work will be arranged. A course on the elements of Archæology will be open to those students who have taken the course in Greek Art. The courses in Greek art and the elements of Archæology will be given each year, and it is expected that a student who has taken both courses will be qualified for more advanced archæological work.

GRADUATE COURSE.

Dr. Hoppin conducts the Archæological Seminary which is open to graduate students who have taken, or are taking in the current year the course on the elements of Archæology or have done equivalent work in the past.

Archæological Seminary.

Two hours a week throughout the year.

In this course various archæological problems will be thoroughly discussed and a certain amount of individual research work will be required of each student. Instruction will be given mainly by conferences and talks of an informal nature. Papers will be read and criticised at each meeting of the class. Students taking the course must be able to read easily both French and German.

POST-MAJOR COURSE.

Dr. Hoppin offers in 1900-01 the following post-major course open to graduate students of Greek :

Pausanias.

Two hours a week throughout the year.

In this course the five principal books of Pausanias's *Descriptio Græciæ* (Books i, ii, v, vi, and x) are read, with special emphasis on the various archæological questions which arise in matters of art and topography; the philological side is not considered except when necessary to a better understanding of the text. A certain amount of collateral reading is required in addition to the translation of the text.

The text of Schubart and the commentary and translation of Frazer are used.

ELECTIVE COURSES.

Dr. Hoppin offers in 1900-01 the following elective courses open to graduate students:

History of Greek Art.

Three hours a week throughout the year.

In this course the origin and development of Greek art are studied, chiefly with reference to sculpture, in which Greek art finds its highest expression. Special attention is given to fifth and fourth century art. Gardner's *Handbook of Greek Sculpture* is used as a text-book. Ability to read both French and German is desirable, though not absolutely essential.

Elements of Archæology.

Three hours a week throughout the year.

This course will introduce students to the various problems of modern archæological science which are not included in the history of Greek art. The various fields which constitute the science will be treated in detail as follows: History of modern archæological progress; Greek architecture; topography, as illustrated by the various excavations; vase painting (also including painting in general); history of Greek coins; terra cottas; bronzes; gems; toreutic arts (gold, silver, and other metals).

This course will be open to those students only who have taken the course on Greek art, or who have done equivalent work. The course is intended as a preparation to more advanced archæological work. Ability to read both French and German is desirable, though not absolutely essential.

Greek History.

One hour a week throughout the year.

In this course the history of the Greek people will be studied from their rise as a nation to their decline under Alexander the Great and his successors. The subject will be treated from the archæological rather than from the critical, comparative, or political standpoint, and an attempt will be made to show the intimate connection between the history and the art of the Greeks. The course is intended primarily for those students who have not offered ancient history on entering but are desirous of taking courses in archæology, for which a slight knowledge of Greek history is advisable. Whenever possible the lectures will be illustrated by photographs or lantern slides.

Greek and Roman Mythology, First Part. *One hour a week throughout the year.*

The myths which pertain to the religion of the Greeks and the Romans will be analysed and illustrated by ancient monuments, principally vase-paintings. This part of the subject will be devoted exclusively to the discussion of the various myths connected with the twelve greater gods of the classical world and their attendant divinities.

Dr. Hoppin offers in 1901-02 the following elective course open to graduate students, and will repeat the courses in the History of Greek Art, the Elements of Archæology and Greek History:

Greek and Roman Mythology, Second Part. *One hour a week throughout the year.*

The second part will discuss in a similar fashion to the preceding, the myths connected with the Greek and Roman demi-gods and the legends of the epic cycles. Special attention will be paid to the Labours of Herakles, the exploits of Theseus, and the Trojan and Thebaid legends.

Dr. Hoppin will substitute in 1902-03 for the course in Greek and Roman Mythology, Second Part, the following elective course open to graduate students:

Private life of the Greeks.

One hour a week throughout the year.

In this course the private life of the Greeks will be discussed chiefly with reference to existing monuments, especially vase-paintings. It is intended that this course and the courses on mythology shall be given in alternate years.

Mathematics.

The instruction in mathematics is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, Mr. James Harkness, Professor of Mathematics, and Dr. Isabel Maddison, Reader in Mathematics.

GRADUATE COURSES.

The graduate courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. The attention of graduate students of mathematics is called to the courses offered in applied mathematics. (See pages 68-69.)

Dr. Scott gave in 1898-99 the following graduate course :

General Theory of Plane Algebraic Curves.

Two hours a week throughout the year.

Throughout the course the fact was emphasised that in the treatment of plane algebraic curves we have three fundamentally distinct conventions, two geometrical and one algebraic, each with its proper process of investigation. The various questions that arise were considered, as far as practicable, in their relation to each of these conventions, and the substantial agreement of the results so obtained was brought prominently forward. Some attention was given to the historical development of the different lines of thought, though this was not made the most important thing. Among the topics discussed were: the general conception of a curve; the determination of a curve by points or lines; the inter-connection of the points or lines of the curve; the analysis of singularities; the effect on a curve of rational and bi-rational transformations of the plane; linear and other systems of curves. A short account of the investigations usually classed as topological was given.

Dr. Scott offers in 1899-1900 the following graduate course :

General Theory of Plane Algebraic Curves.

Two hours a week throughout the year.

This course was designed as a continuation of the one given in 1898-99. Presupposing a general knowledge of plane algebraic curves, it dealt in detail with some of the problems that present themselves in geometry on a curve, geometrical transformations, both bi-rational and rational, and the treatment of higher singularities.

Dr. Scott offers in 1900-01 the following graduate course :

Higher Plane Curves.

Two hours a week throughout the year.

During the first semester curves will be considered from a geometrical standpoint (topology); during the second semester they will be considered under their algebraic aspect (theory of invariants).

Mr. Harkness gave in 1898–99 the following graduate courses:
Galoisian Algebra and the Theory of Groups.

Two hours a week throughout the year.

These lectures were given in connection with Weber's *Algebra* (the latter part of volume I. and the whole of volume II.). In the earlier part of the course a detailed account was given of the algebraic corpus, with its associated theorems on algebraic numbers, and of the Galoisian theory of equations; and careful attention was given to the views of Kronecker as developed in his memoir *Grundzüge einer arithmetischen Theorie der algebraischen Grössen*. Later in the course the lectures dealt with the subject of abstract groups, and collateral reading was assigned in Burnside's *Theory of Groups*. Throughout the course emphasis was laid on modern arithmetic developments, such as the theory of integral functions of indeterminates with integral coefficients, and the theory of ideals. The lecture course was supplemented by outside reading in Jordan's *Traité des Substitutions* and Netto's *Theory of Substitutions* (F. N. Cole's edition).

Elliptic Functions.

Two hours a week during the second semester.

An historical account of the Theory of Transformation from the time of Gauss and Jacobi down to the present day.

Mr. Harkness offers in 1899–1900 the following graduate course:

Theory of Functions.

Two hours a week throughout the year.

This course is divided into two parts. In the first semester special attention is given to the construction of Riemann surfaces and to their dissection in close connection with the general theory of algebraic functions and their integrals. The second semester is devoted to a detailed discussion of Abel's Theorem, of Abelian integrals and the inversion problem.

Mr. Harkness offers in 1900–01 the following graduate course:

Elliptic Functions.

Two hours a week throughout the year.

The subject will be discussed in close relation with the general theory of functions as developed by Weierstrass; also, if time permits, special attention will be given to Burkhardt's treatment of the subject from the point of view of Riemann and his successors. Collateral reading in the classical treatises on elliptic functions will be assigned.

The Mathematical Journal Club holds regular fortnightly meetings, at which reports on special topics or memoirs are presented by the instructors and the graduate students.

POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to five hours a week. The courses given are the following, with occasional modifications:

I. (*a.*) Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*, Dr. Scott.

or, I. (b.) Lectures on Modern Geometry, in connection with Reye's *Geometrie der Lage*, Dr. Scott.

or, I. (c.) Lectures on Special Topics in Geometry, Dr. Scott.

II. (a.) Lectures Introductory to Modern Algebra in connection with Salmon's *Modern Higher Algebra*, and Elliott's *Algebra of Quantics*, Mr. Harkness.

or, II. (b.) Lectures preparatory to the Theory of Functions, in connection with Harkness and Morley's *Introduction to the Theory of Analytic Functions* and Chrystal's *Algebra*, Vol. II., Mr. Harkness.

or, II. (c.) Lectures on Differential Equations (elementary), in connection with Forsyth's *Differential Equations*, Mr. Harkness.

or, II. (d.) A general course in Analysis, dealing with the higher development of subjects only touched upon in the major course, such as Determinants, Fourier's Series, Infinite Series, Definite Integrals, etc., Mr. Harkness.

III. (a.) Lectures on Analytical Geometry of Three Dimensions, Dr. Maddison.

or, III. (b.) A practical course in Differential Equations, Dr. Maddison.

or, III. (c.) Lectures on the Theory of Envelopes, Dr. Maddison.

The courses offered in the year 1899-1900 are :

I. (a.) Modern Analytical Geometry, Dr. Scott.

Two hours a week throughout the year.

II. (c.) Lectures on Differential Equations, Mr. Harkness.

Two hours a week throughout the year.

III. (a.) Analytical Geometry of Three Dimensions, Dr. Maddison.

One hour a week throughout the year.

The courses offered in the year 1900-01 are :

I. (c.) Dr. Scott.

Two hours a week throughout the year.

II. (b.) Mr. Harkness.

Two hours a week throughout the year.

III. (c.) Dr. Maddison.

One hour a week throughout the year.

Applied Mathematics.

The instruction in applied mathematics is under the direction of Dr. Albert P. Wills, Associate in Applied Mathematics and Physics.

The courses offered in applied mathematics are designed to meet the requirements of students of mathematics and physics. The work is so arranged as to demand from the mathematical students merely such knowledge of physical principles and ideas as will

enable them to comprehend readily, from abridged explanations, the essential physical ideas implied by the symbols used and the formulæ deduced. For the students in physics the work is so planned as to help them at every step to appreciate the value of analytical methods in treating physical problems.

GRADUATE COURSES.

Students taking the graduate courses in applied mathematics are required to have a knowledge of differential and integral calculus and of analytical geometry of three dimensions, and some familiarity with differential equations. The courses will be varied from year to year, so that a student remaining two or three years may have the opportunity of studying different subjects in the great field of applied mathematics. For those students who desire to make applied mathematics a minor for the degree of Doctor of Philosophy sufficient extra reading under the direction of the instructor will be assigned, to enable them to complete the required amount of work in one year.

Dr. Wills offers in 1899–1900 the following graduate courses:

Advanced Dynamics.

Three hours a week during the first semester.

These lectures are founded upon the classical treatises of Kirchhoff, Jacobi, Helmholtz, Appell, Routh, and others.

Potential Function.

Three hours a week during the second semester.

The Newtonian potential function and some of its physical applications are discussed.

Dr. Wills offers in 1900–01 the following graduate course :

The Partial Differential Equations of Physics and Fourier's Series.

Three hours a week throughout the year.

POST-MAJOR COURSE.

Dr. Wills offers in 1899–1900 the following post-major course open to graduate students :

Dynamics.

Two hours a week throughout the year.

Students taking this course are required to possess a knowledge of elementary mathematics, including differential and integral calculus and analytical geometry of three dimensions, and must be familiar with the elementary principles of physics.

Dr. Wills offers in 1900–01 the following post-major course open to graduate students :

Dynamics and the Theory of Potential. *Two hours a week throughout the year.*

SCIENCE.

Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Dr. Arthur Stanley Mackenzie, Dr. Elmer P. Kohler, Dr. Florence Bascom, Dr. Allerton S. Cushman, Dr. Albert P. Wills and Dr. Harriet Randolph.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, geological, biological, and physical laboratories and the laboratory for experimental psychology are open for students throughout the day.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purpose of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories are carefully furnished with the apparatus necessary for thorough work.

Graduate work in the natural sciences is highly special, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

Physics.

The instruction in physics is under the direction of Dr. Arthur Stanley Mackenzie, Professor of Physics, and Dr. Albert P. Wills, Associate in Applied Mathematics and Physics.

GRADUATE COURSES.

Dr. Mackenzie offers in 1899-1900 the following graduate course :

The Mathematical Theory of Electricity and Magnetism.

Three hours a week throughout the year.

This course is based on Maxwell's standard work and its later developments.

Dr. Mackenzie offers in 1900-01 the following graduate courses :

Heat Conduction.

Two hours a week throughout the year.

This course deals mainly with a discussion of Fourier's work and its applications in other subjects.

Electromagnetic Theory of Light.

One hour a week throughout the year.

This is a continuation of a course on optical theories given in 1897-98, and on electricity and magnetism given in 1899-1900.

Dr. Mackenzie and Dr. Wills together conduct the seminary, the journal club, and the laboratory work.

Physical Seminary.

One hour a month throughout the year.

All advanced students are expected to meet with the instructors once a month to hear or read papers on assigned topics in physics.

Journal Club.

Three hours a month throughout the year.

Laboratory work.

The laboratory work is arranged for the purpose of familiarising the student with the methods of research ; the student begins by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in the laboratory. In the basement there is a constant-temperature vault designed for accurate comparison of lengths, etc., and the laboratory is provided with special rooms for magnetic, optical, and electrical work.

POST-MAJOR COURSES.

Dr. Mackenzie offered in 1898-99 and offers in 1899-1900 the following post-major courses, open to graduate students :

Sound in Relation to Music.

Two hours a week during the first semester.

This course begins with a detailed mathematical discussion of the propagation of a sound wave. The work of Helmholtz and König is then taken up and its bearing on music considered. Most of the references for collateral reading are to the original articles.

Spectrum Analysis and Polarisation.

Two hours a week during the second semester.

The work of this course is at first a continuation of the major course in the same subject. Then follows a study of the methods of spectrum analysis and the distribution of spectrum lines. Some time is also devoted to a consideration of the applications of polarised light.

Dr. Mackenzie offers in 1900-01 the following post-major courses, open to graduate students :

Spectrum Analysis and Polarisation. *Two hours a week during the first semester.*

Electricity and Magnetism.

Two hours a week during the second semester.

This course is partly a continuation of the work of the major physics course and partly an introduction to the theory of electrical measurements in the laboratory.

Chemistry.

The instruction in chemistry is under the direction of Dr. Elmer P. Kohler, Associate Professor of Chemistry, and Dr. Allerton S. Cushman, Associate in Chemistry.

GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic, and physical chemistry, seminary work, reports upon current chemical literature, and laboratory exercises. In all the laboratory work the students are required to become familiar with the literature bearing upon the subjects they are studying, and it is therefore necessary for them to have a reading knowledge of French and German.

The lecture courses are varied from year to year to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the chief subject in the examination for the degree of Doctor of Philosophy. Such students may specialise either in organic chemistry, under the direction of Dr. Kohler, or in inorganic and physical chemistry, under the direction of Dr. Cushman, but students who make organic chemistry the major subject of examination must take physical chemistry as one of their minor subjects, and students who make inorganic chemistry the major subject, must take organic chemistry as one of the minor subjects.

Dr. Kohler offers in 1899-1900 and in 1900-01 the following graduate courses:

Advanced Organic Chemistry.

Three hours a week throughout the year.

Chemical Seminary, Organic Chemistry.

One hour a week throughout the year.

The students who specialise in organic chemistry present formal reports upon assigned topics in organic chemistry.

Dr. Cushman offers in 1899-1900 the following graduate courses:

Historical Development of Chemistry.

One hour a week during the first semester.

Selected topics in Advanced Organic Chemistry.

One hour a week during the second semester.

Dr. Cushman offers in 1900-01 the following graduate course:

Chemical Seminary, Inorganic Chemistry.

One hour a week throughout the year.

The lectures are on structural inorganic chemistry, including the latest theories on the structure of inorganic compounds (stereometric isomerism).

Dr. Cushman offers in 1901-02 the following graduate course:

Physical Chemistry.

Three hours a week throughout the year.

The lectures give a complete survey of the subject, including relations of mass and volume, thermo-chemistry, theory of solutions, Guldberg and Waage's mass law, reaction velocities, and chemical equilibria.

The laboratory work in connection with the course includes the determination of specific gravities of solids, liquids, and gases, calorimetry, the use of the polariscope and refractometer and the study of the conductivity of electrolytes, standardisation and calibration of instruments, determination of vapor density and molecular weights, electro-chemical measurements.

Dr. Kohler and Dr. Cushman together conduct the Journal Club.

Journal Club.

One hour a week throughout the year.

The advanced students, with the instructors, meet to hear reports and discussions on recent scientific articles.

POST-MAJOR COURSES.

Dr. Kohler offers in 1899-1900 and in 1901-02 the following post-major course, open to graduate students:

Organic Chemistry, selected topics.

Two hours a week throughout the year.

The object of this course is to lay the foundation for independent work in organic chemistry. The lectures begin with a study of current problems as illustrated by some particular class of organic compounds. This is followed by a discussion of the laboratory methods available for the solution of such problems.

The laboratory work is varied to meet the wants of the individual students. In general the student begins with the preparation of some of the more important substances that are discussed in the lectures. This is followed by organic analyses, molecular weight determinations, and the transformations necessary to establish the structural formulas of the substances prepared. In the second semester some elementary problem in organic chemistry is assigned to each student.

Dr. Cushman offers in 1899-1900 the following post-major courses open to graduate students:

Advanced Quantitative Analysis.

Two hours a week throughout the year.

In the first semester modern methods of advanced quantitative work are considered, and the students practise the analysis of rocks, ores, commercial products, etc.

The work of the second semester includes water and gas analyses, and toxicology, with special reference to students who intend to take up the study of medicine. It may also include the preparation of inorganic compounds, and determinations of specific gravity, specific heats, vapor density, solubility, and the elevation of the boiling point and depression of the freezing point by substances in solution.

Dr. Cushman offers in 1900-01 the following post-major course open to graduate students:

Advanced Inorganic Chemistry.

Two hours a week throughout the year.

In this course the general subject matter of inorganic chemistry is reviewed and developed. Special attention is paid to theoretical considerations and their application to the facts observed by the student in the laboratory. A certain number of lectures are devoted to the history of the science, tracing it from the earliest times to the present day and dwelling particularly on modern theories.

The laboratory work in this course begins with inorganic preparations ; advanced problems in quantitative analysis are then taken up, including the calibration and standardisation of apparatus ; analysis of water, milk, butter, commercial products, etc. Finally molecular weight determinations are made by vapor density, freezing point and boiling point methods.

ELECTIVE COURSE.

Dr. Cushman offers in 1900-01 the following elective course :

Glass Blowing.

One hour a fortnight throughout the year

The instructor gives demonstrations in simple glass blowing and the making and setting up of apparatus. No student can derive benefit from the course unless time is taken for private practice in the manipulations.

The course is open to post-major and graduate students in the scientific departments, subject to the approval of the instructors.

Geology.

The instruction in Geology is under the direction of Dr. Florence Bascom, Associate in Geology.

The instruction offered in geology consists of an undergraduate minor course in general geology of five hours a week throughout one year, courses in petrography arranged for undergraduate students desiring to specialise in geology, and two graduate courses, five hours a week throughout one year.

The graduate course in mineralogy is intended to meet the needs of graduate students in chemistry who wish to make mineralogy a minor subject for the degree of Doctor of Philosophy. It is open to all graduate students who have had previous training in chemistry.

The graduate course in palæontology is designed for graduate students in biology who wish to make palæontology a minor subject for the degree of Doctor of Philosophy. Its close affiliation with biology renders it a natural supplement to graduate work in that science.

Excellent illustrative material for these courses is furnished by the geological collections of the college and of the instructor, which contain over three thousand fossil, mineral, and rock specimens. The department is also fortunate in its proximity to the fine collections of the Academy of Natural Sciences of Philadelphia. Within easy reach of the college there are excellent collecting fields for fossil, mineral, and rock specimens.

GRADUATE COURSES.

Dr. Bascom offers the following graduate courses :

Lectures on Mineralogy.

Two hours a week throughout the year.

Laboratory work.

One hour a week throughout the year.

This course opens with lectures on morphological crystallography, illustrated by models crystal forms and accompanied by problems in crystal projections and construction and in the determination of indices by zones; there are also lectures on molecular and dynamical physical crystallography; optical crystallography and optical methods of mineral determination are treated in detail.

A large portion of the second semester is devoted to descriptive mineralogy and to the discussion of important mineral species. The lectures are illustrated by minerals, and the student is encouraged to make her own collection.

In the laboratory opportunity is given for the study of crystal forms, of optical methods of mineral determination, and of mineral species.

Williams's *Crystallography* and the works of Hintze, Groth, Tschermak, and Dana are used as reference books.

Lectures on Paleontology.

One hour a week throughout the year.

Laboratory work.

Five hours a week throughout the year.

It is the aim of this course to give a systematic review of the fossil remains of the animal and vegetable kingdoms, to make a detailed study of one or more of the more important classes, such as the Brachiopoda and Mollusca, and finally to emphasise the principles of paleontology and the bearing of this science upon the doctrine of evolution. This three-fold purpose is accomplished largely by required reading and by laboratory study of fossil specimens. Nicholson and Lydekker's *Manual of Paleontology*, Bernard's *Éléments de Paléontologie*, and Zittel's *Handbuch der Paleontologie* furnish the basis for systematic study. Monographs and State Reports constitute a large amount of special literature; use is made toward the close of the course of H. S. Williams's *Geological Biology* and Cope's *Primary Factors of Organic Evolution*. Zittel's paleontological charts are used in further illustration. Through the assistance and co-operation of the biological department students of geology are enabled to make constant comparison between fossil and living forms and thus by inference to reconstruct the entire organism of type forms.

Dr. Bascom offers the following undergraduate course, which may be attended by graduate students:

Lectures on General Geology.

Three hours a week throughout the year.

Laboratory work.

Two hours a week throughout the year.

Field work.

Three hours a week throughout the year.

The lectures embrace a general survey of the whole field of geology—cosmical, lithological, dynamical, structural, historical, and physiographic geology. They are illustrated by mineral, rock, and fossil specimens and by charts, photographs, and wooden models. No textbook is used, but the best English, German, and French manuals are accessible for reference, and students are expected to provide themselves with Scott's *Introduction to Geology*.

In the laboratory the student is first occupied with the study of crystal forms and with the determination of minerals and rocks. Geologic structures are then studied by means of models, photographs, and natural illustrations, and geologic maps are interpreted and sections drawn. Finally the student gains familiarity with the typical flora and fauna of the successive geological formations.

For the field work, excursions are made into the immediate neighborhood on Tuesdays from 2 to 5 p.m. during the autumn and spring. As the course progresses, more extended excursions are taken among the crystalline rocks of the South Mountain Range and the fossiliferous formations of the Coastal Plain. On these excursions instruction in field geology is given and material for further study is collected. Reports of the areas covered are required of the students, and the excursions count as two hours of lectures. When the excursions are prevented by inclement weather required reading is substituted. During the winter months journal meetings replace the field excursions.

The lectures and laboratory work make up together a five-hour course, requiring the usual outside preparation for a five-hour lecture course. When field work is required the preparation for the lectures is reduced three and a half hours a week.

Biology.

The instruction in biology is under the direction of Dr. Thomas Hunt Morgan, Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, and Dr. Harriet Randolph, Demonstrator in Biology and Reader in Botany.

GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren.

Dr. Morgan gave in 1896-97 and offers in 1900-01 the following graduate course :

Critique of Darwin's Theory of Natural Selection.

One hour a week throughout the year.

The value of the evidence for and against the theory of natural selection is critically examined. The method of Darwinism is also considered in regard to its value as a scientific procedure. Amongst the critics of Darwin's theory, special attention is paid to Albert Wigand.

Dr. Morgan gave in 1897-98 and offers in 1899-1900 the following graduate course :

Lectures on Problems in Embryology.

One hour a week throughout the year.

The isotropy of the egg and the relation of cleavage to differentiation are studied. The evidence for the "germ layer" theory is examined, and larval forms are considered in reference to their value in phylogeny.

Dr. Morgan gave in 1898-99 the following graduate course :

Problems in Regeneration.

One hour a week throughout the year.

In this course of lectures the main problems in the regeneration of living things are discussed, and the theories that have been advanced to account for the phenomena are considered. The attempts that have been made to find a satisfactory statement of the doctrine of vitalism are critically examined.

Dr. Morgan offers in 1899-1900 the following graduate courses:

Theories of Regeneration.

One hour a week during the first semester.

Lectures on Metamerism.

One hour a week during the second semester.

Dr. Warren offers in each year a graduate course in Physiology:

Physiology.

One hour a week throughout the year.

Some special and limited subject is discussed with considerable detail. In addition to the lectures, but not necessarily connected with them, students may undertake research work in the laboratory or participate in such laboratory exercises as are suited to their needs or previous training.

In 1900-01 the course will consist of an outline of the history of physiology, occupying part of one semester; an account of the physiology of the special senses, the methods of studying smell and taste sensations and the organs on which these depend; and selected problems in animal metabolism, in especial the methods of calorimetric research and the results obtained by such investigations.

In 1897-98 the subject of the course was Selected Problems of Respiration in Vertebrates. The general question of respiration and the methods of its experimental investigation (Respiration apparatus, etc.) were very fully treated. The bearing of these problems upon those of metabolism in the wider sense was also considered.

In 1898-99 the Structure and Function of the Eye were studied.

In 1899-1900 the Structure of the Ear and the Theories of the Function of the different portions of the Labyrinth are discussed. A considerable amount of time is devoted to the history of the doctrines of audition.

Laboratory work.

There is no regular course of laboratory instruction for graduates. Each student desiring to devote a considerable portion of her time to such work is given an experimental problem for verification or extension. The nature of the work depends in each case on the qualifications of the student.

POST-MAJOR COURSES.

Dr. Morgan offers in 1899-1900 the following post-major course, open to graduate students:

Embryology.

One hour a week throughout the year.

The course consists of lectures and laboratory work on the embryology of the vertebrates. The more important embryological problems are discussed in connection with the lectures. An attempt is made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, concrescence, etc. A course of laboratory instruction accompanies these lectures. The principal types of development described in the lectures are studied in the laboratory. The embryology of *Rana*, *Torpedo*, *Amphioxus*, *Ascidian*, *Chick*, and *Mammal* is carefully examined. After the study of these forms there is assigned to each student some elementary problem in embryology.

Dr. Morgan gave in 1898-99 and offers in 1900-01 the following post-major courses, open to graduate students:

Comparative Anatomy of the Mollusca.

One hour a week during the first semester.

The lectures are accompanied by demonstrations and laboratory work, and are intended to cover the ground of Lang's *Vergleichende Anatomie*, Part III., Mollusca. The course is intended to supplement the major course in zoology. Types of all the main groups of the Mollusca are carefully dissected in the laboratory.

Advanced Theoretical Zoology.

One hour a week during the first semester.

The following topics are discussed: definitions of species, genera, and families; the basis of a natural classification; adaptation; sexual selection and sexual dimorphism; mimicry; different forms of homology; phylogeny and ontogeny.

The Structure of Protoplasm and of the Cell.

One hour a week during the second semester.

This lecture course deals with the structure of protoplasm. The formation and division of the centrosome and of the nucleus, the mechanism of cell-division, and the maturation of spermatozoon and ovum are described. The evidence given by experimental embryology towards a solution of the problem of the structure of the egg-cell is carefully considered.

Dr. Warren offers the following post-major courses, open to graduate students :

Advanced Physiology.

One hour a week throughout the year.

The topics selected depend upon the previous training of the students, and as far as possible the preferences of the students are consulted. Occasional conferences are held for the discussion of essays prepared by the students presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

Lectures on the Structure and Function of the Central Nervous System.

One hour a week throughout the year.

Lectures and Demonstrations in Physiological Chemistry.

One hour a week throughout the year.

This course with the required amount of laboratory work is equivalent to a two-hour course. It treats of the problems of secretion and excretion, and also of the principal questions of nutrition in considerable detail and with reference to the more modern theories relating to these processes. The lectures are intended to supplement those of the major year, and a preliminary training in chemistry equivalent to that obtained in the major course is required.

Dr. Morgan and Dr. Warren conduct laboratory work in connection with the above courses :

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student experience in the use of apparatus and in adapting it to research. Some special problem is assigned to each student ; at the end of the year the results of the work are presented in writing.

COLLEGE BUILDINGS.

The college buildings are situated at Bryn Mawr, in the suburbs of Philadelphia, five miles west of the city, on the main line of the Pennsylvania Railroad. The neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover fifty acres, and include grass and clay tennis courts, a hockey ground, golf links, and a large athletic field.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms, seminary-rooms and reading-rooms for graduate students, and the offices of administration.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a stone building erected by the Trustees out of funds in large part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific

departments, the special scientific libraries, and the private rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, and the third floor for chemistry. The fourth floor contains the geological lecture-rooms and laboratories, and research-rooms for advanced students; and the fifth floor laboratories for experimental psychology. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the alumnae and students.

Around Taylor Hall are situated halls of residence for the accommodation of students. Plans and descriptions of the five halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall East and West, and plans of the academic buildings, Taylor Hall and Dalton Hall, are enclosed in the general program. Ample provision has been made in the basement of Merion Hall for the accommodation of bicycles, and music-rooms with sound-proof walls and ceilings are provided in the basement of Pembroke Hall East.

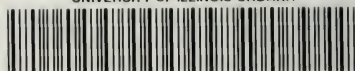
The Gymnasium, which is open to the students at all times, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director, with an adjoining room for the examination and record of the physical development of the students; and bathrooms for use after exercise. In the basement is a swimming tank, seventy-four feet long, twenty feet wide, and from four to seven and one-half feet deep, given in 1894 by the alumnae, students, and friends of the college, and well supplied with springing boards, life preservers, and other apparatus for the teaching of swimming. The gymnasium has been built in accordance with the plans of Dr. Sargent, is furnished with his complete apparatus, and is under the charge of a medical director and an assistant.

There is on the grounds, separated from the other buildings, a Cottage Infirmary or Hospital with accommodation for patients and nurses, and its own kitchen and bath-rooms.

Near the college are a Telegraph Office, Adams Express Office, and United States Money Order Office. There are good roads in every direction. Horses for riding and driving may be kept at livery near the college, at a cost of twenty-five dollars a month.

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